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DEPARTMENT OF AGRICULTURE

Lewis Cass Building, P.O. Box 30017
Lansing, Michigan 48909

DEAN PRIDGEON, Director

July, 1982

Dear Friend:

While the state's economy continues to falter and unemployment is the highest in the nation, agriculture's contribution to Michigan remains impressive. However, Michigan agriculture is also under financial pressure in the 1980's. Although an all time record in cash receipts was earned by our 67,000 farmers last year, farm production expenditures were also at an all time high. Up 17 percent in 1980, they continue to increase in 1981. As a farmer myself, no one needs to tell me these trends are causing undue hardship to Michigan farm families.

The last several months have seen governmental budget cuts and program reductions, but I still remain optimistic about agriculture's role in Michigan's economic recovery. I will continue to do whatever I can to support and improve the agricultural industry in Michigan.

This 1982 edition of Michigan Agricultural Statistics, compiled by our federal-state Michigan Agricultural Reporting Service, documents the contribution of farmers to Michigan's economy. I am convinced that one ingredient for success in this highly competitive environment is a reliable and timely agricultural data base. The purpose of this publication is to assist farmers, agri-business, consumers, and others to make the best production and marketing decisions possible. I commend the voluntary reporting efforts of so many producers and businesses which make this report possible.

Sincerely,

Dean Pridgeon

Dean M. Pridgeon, Director

MICHIGAN AGRICULTURAL STATISTICS

1982

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cooperating

Michigan Department of Agriculture Marketing Division

COVER: Soybeans have continued to increase in importance to Michigan's agriculture, since the first 8,000 planted acres were recorded here in 1924. Today that figure has reached over a million acres. Nationally, with a modest 1.6 million acres in 1924, soybean acreage now stands at a spectacular 72.2 million acres. This tremendous growth is due perhaps in large part to an early Michigan visionary, the late Mr. Henry Ford founder of the Ford Motor Company. Mr. Ford worked tirelessly in promoting the use of soybean products in the late nineteen thirties and early forties, and sponsored much of the soybean utilization research of the period. He even brought out a prototype plastic automobile in 1941, many parts of which being derived from soybeans. Today, soybeans are used for cooking oils, margarine, salad oils, meat substitutes, paints, varnishes, adhesives and more. Photograph by Mr. Bob Elbert, American Soybean Association. Historic information provided by Mr. Dave Crippen, Archives/Henry Ford Museum, Dearborn, Michigan.

MARS-82-01

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August, 1982

Dear Friend:

It's our pleasure to bring you this 1982 edition of the Michigan Agricultural Statistics.

For your convenience, this publication contains under one cover, all of the significant state and county agricultural statistics generated by this office under our joint Federal-State Cooperative Agreement for the 1981 crop year. Maintenance of this "agricultural data base," consisting of both in-season forecasts and end of season estimates, is an activity which has been in existence continually for over 60 years.

Some major changes in the operation of Federal programs are now in progress. Selected crop, livestock, and economic data series were eliminated recently due to reduced Federal appropriations. These are itemized in detail in this publication. Also, a new system of user fees is being implemented this year. It's primary purpose is to recover the postage costs associated with our survey sampling and release of statistical information. Crop correspondents and other close cooperators will continue receiving their releases free, however, most other data users will be required to pay a subscription fee. These changes are necessary to achieve maximum economy in operation of this service, and will aid us in continuing to provide vital agricultural information to the farming community. This is especially important in light of the current economic problems being experienced by our state and the nation.

As always, we are indebted to all of you who give so generously of your time and effort in voluntarily reporting. Thank you.

Sincerely,

Don J. Fedewa
Statistician in Charge

Changes in Crop-Livestock Estimating Program

Major SRS Program reductions occurred in 1982. Notice of these changes was given in the Federal Register, on March 17, 1982 as follows:

DEPARTMENT OF AGRICULTURE
Statistical Reporting Service Modification of Program of Reports

Notice is hereby given that the Statistical Reporting Service (SRS) of USDA will make immediate, major modifications in portions of its crop and livestock estimating program. The program limitations are necessary to stay within the funding level provided for fiscal year 1982. Available resources will be redirected toward maintaining timely and reliable data series judged to be the most important in monitoring changes in the agricultural sector. Over 300 reports will continue to be published annually by SRS.

It will be the policy of SRS to work with commodity groups, local organizations, and State agencies to reestablish programs being eliminated or curtailed, if funds for data collection, summarization, and publication can be provided by these groups.

Due to the above mandate the following Michigan crop and livestock estimates are eliminated or changed in frequency of issue as follows:

I. Livestock

A. Reports Eliminated

1. Honey Production
2. July Lamb Crop and Wool Production
3. Mink Production
4. July Cattle & Calf Crop (Report will continue at the National Level)
5. Quarterly Cattle on Feed (Report will continue for the 13 principal States)
6. June Hog and Pigs (Report will continue for 10 major states and the National total)

B. Reports Changed From Monthly to Quarterly

1. Cold Storage (includes all fruits & vegetables)
2. Manufactured Dairy Products
3. Egg Production
4. Livestock Slaughter
5. Milk Production

C. Data Series Eliminated From Ongoing Reports

1. Separate Estimates of Table and Hatching Eggs
2. Breakout of Dairy Feed Ingredients

II. Crops

A. Programs Eliminated

1. Apples by Variety
2. Commercial Fertilizer Consumption by Class
3. Field Crops: Production, Disposition and Value (Annual Report)
4. Maple Sirup
5. Onion Stocks, January 1
6. Producer Owned Grain Stocks, January
7. Popcorn
8. Red Clover Seed
9. December Winter Wheat Yield and Production Estimate
10. July 1 Corn Production Forecast
11. Blueberries
12. Pickle Stocks, November
13. Fresh Market Vegetables — Cantaloups, Cucumbers, Snap Beans, Cabbage, Green Peppers, Asparagus
14. Processing Vegetables — Cabbage for Kraut, Asparagus, Beets, Cucumbers for Pickles
15. Floriculture
16. Spearmint — Eliminate June, August and September Production Forecasts

Michigan's Rank in the Nation's Agriculture, 1981

COMMODITY	Rank Among States	Production	Unit	Percent of U.S. Production
		1,000		
Crops				
Blueberries	1	52,000	Lbs.	44.9
Tart Cherries	1	88,000	Lbs.	65.4
Cucumbers, Processing	1	100.8	Tons	17.5
Dry Beans	1	7,198	Cwt.	22.6
Navy Beans	1	4,070	Cwt.	75.3
Bedding Plants	2	6,428	Flats	15.2
Prunes & Plums	2	16	Tons	23.5
Apples	3	640,000	Lbs.	8.4
Asparagus	3	171	Cwt.	10.0
Celery	3	1,440	Cwt.	7.9
Red Clover Seed	3	1,520	Lbs.	8.9
Tomatoes, Processing	3	118.3	Tons	2.1
Snap Beans, Processing	4	36.2	Tons	5.4
Sweet Cherries	4	46,000	Lbs.	15.0
Strawberries	4	176	Cwt.	2.4
Carrots	5	1,316	Cwt.	6.3
Floriculture	5	54,464	Dol.	5.4
Grapes	5	53	Tons	1.2
Pears	5	9	Tons	1.0
Sugarbeets	5	2,030	Tons	7.4
Cauliflower	6	62	Cwt.	1.3
Cantaloups	6	184	Cwt.	1.4
Maple Sirup	6	91	Gal.	6.5
Oats	6	21,080	Bu.	4.1
Spearmint	6	118	Lbs.	5.5
Green Peppers	7	135	Cwt.	2.3
Onions	7	2,446	Cwt.	6.9
Corn for Silage	8	4,160	Tons	3.6
Corn for Grain	8	273,600	Bu.	3.3
Corn, Sweet, Fresh Market	8	702	Cwt.	5.1
Peaches	8	35,000	Lbs.	2.2
Popcorn	8	24,150	Lbs.	3.1
Rye	8	532	Bu.	2.9
Cucumbers, Fresh Market	9	238	Cwt.	3.9
Lettuce	9	258	Cwt.	.4
Alfalfa Hay	10	3,300	Tons	3.9
Snap Beans, Fresh Market	10	83	Cwt.	2.8
Tomatoes, Fresh Market	10	391	Cwt.	1.5
Cabbage, Fresh Market	11	464	Cwt.	2.3
Potatoes	11	8,503	Cwt.	2.5
Winter Wheat	17	41,500	Bu.	2.0
Soybeans	18	29,100	Bu.	1.4
Livestock Products				
Non-Fat Dry Milk	5	75,769	Lbs.	5.8
Creamed Cottage Cheese	6	38,308	Lbs.	5.0
Milk Production	6	5,103	1,000 Lbs.	3.8
Butter	6	43,790	Lbs.	3.6
Ice Cream	10	32,046	Gal.	3.9
Mink	10	129	Pelts	3.7
Honey	11	4,900	Lbs.	2.6

Michigan Crop Acreage, Production and Value

CATEGORIES AND ANNUAL TOTALS	Acreage Harvested	Total Production	Value of Production
	1,000 Acres	*1,000 Tons*	*1,000 Dollars*
1981 CROPS:			
Field Crops[1]	**7,359**	**20,986**	**1,628,868**
Fruit	**116**	**509**	**157,688**
Vegetables:			
Fresh Market[2]	**63**	**395**	**104,017**
Processing	**39**	**268**	**30,624**
Other[3]	**20**	**2**	**2,627**
TOTAL CROPS:			
1981	**7,597**	**22,160**	**1,923,824[4]**
1980	7,317	21,111	1,996,409
1979	7,163	21,258	1,576,006
1978	6,811	19,788	1,389,125
1977	6,866	19,281	1,263,472

[1] Includes minor crops.
[2] Includes quantities processed for some crops.
[3] Includes red clover seed and spearmint for oil.
[4] Includes 1981 sugarbeet production valued at the 1980 level.

Production Index by Groups, Michigan (1977 = 100)

YEAR	All Crops[1]	Feed Grains[2]	Hay	Cash Crops[3]	Fruit
1981	**125**	**128**	**136**	**115**	**102**
1980	118	116	135	108	136
1979	111	112	134	96	109
1978	101	93	135	86	143
1977	100	100	100	100	100

[1] Sum of crops shown.
[2] Corn, oats and barley.
[3] Wheat, dry beans, soybeans, sugarbeets and potatoes.

Production Index by Groups, United States (1977 = 100)

YEAR	All Crops[1]	Feed Grains	Hay and Forage	Food Grains	Sugar Crops
1981	**119**	**121**	**106**	**143**	**110**
1980	101	97	98	120	97
1979	112	116	108	108	93
1978	102	108	106	93	100
1977	100	100	100	100	100

[1] Includes vegetables, fruits, nuts and some other crops not in separate groups shown, and farm gardens.

Farm Numbers and Acreage, Michigan[1]

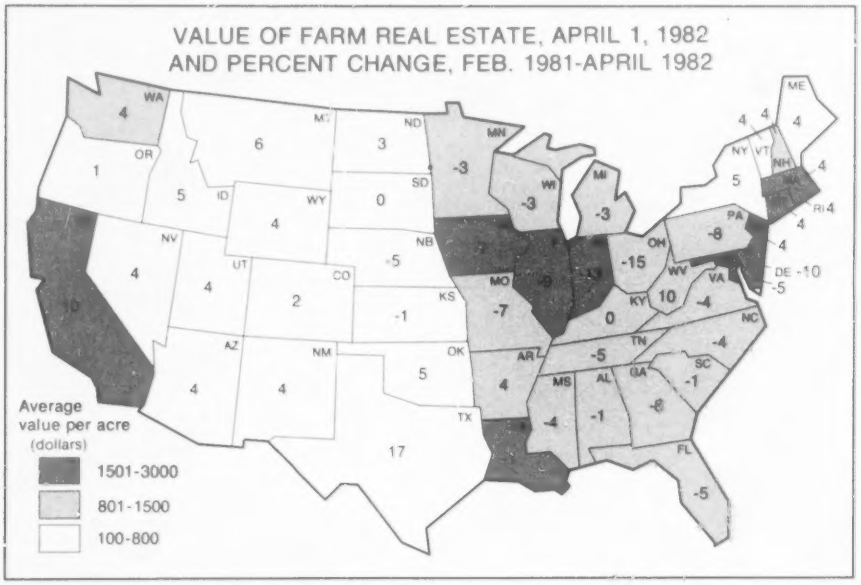
YEAR	New Farm Definition[2]			Old Farm Definition[3]		
	Number of Farms	Average Size Per Farm	Total Land in Farms	Number of Farms	Average Size Per Farm	Total Land in Farms
		Acres	*1,000 Acres*		*Acres*	*1,000 Acres*
1982	**65,000**	**177**	**11,500**	[4]	[4]	[4]
1981	66,000	174	11,500	[4]	[4]	[4]
1980	66,000	173	11,400	[4]	[4]	[4]
1979	66,000	173	11,400	[4]	[4]	[4]
1978	66,000	173	11,400	72,000	158	11,400
1970	[4]	[4]	[4]	84,000	151	12,700
1960	[4]	[4]	[4]	118,000	131	15,400
1950	[4]	[4]	[4]	161,000	111	17,900
1940	[4]	[4]	[4]	190,000	97	18,400
1930	[4]	[4]	[4]	179,000	101	18,000
1920	[4]	[4]	[4]	196,447	97	19,033
1910	[4]	[4]	[4]	206,960	92	18,941
1900	[4]	[4]	[4]	203,261	86	17,562

[1] Starting with 1979, U.S.D.A. estimates of farm numbers and land in farms is based on the "New Farm Definition" used by the Department of Commerce, Bureau of the Census. Estimates listed for 1978 for comparison.
[2] Places with annual sales of agricultural products of $1,000 or more.
[3] Places of 10 or more acres that had annual sales of $50 or more or places that had annual sales of $250 or more.
[4] Data not available.

Average Value of Farm Real Estate Per Acre[1]

REGION/STATE	April 1, 1982		February 1, 1981[2]		February 1, 1980		February 1, 1979		February 1, 1978	
	Value	Percent Change	Value	Percent Change	Value	Percent Change	Value	Percent Change	Value	Percent Change
	Dollars		*Dollars*		*Dollars*		*Dollars*		*Dollars*	
Northeast										
Maine[3]	**636**		612		579		536		475	
New Hampshire[3]	**1,087**		1,045		988		912		802	
Vermont[3]	**781**	4	751	6	710	8	663	12	600	12
Massachusetts[3]	**1,707**		1,641		1,552		1,440		1,289	
Rhode Island[3]	**2,804**		2,696		2,548		2,349		2,080	
Connecticut[3]	**2,634**		2,533		2,395		2,231		2,009	
New York	**786**	5	749	6	708	6	669	10	607	3
New Jersey	**3,118**	4	2,998	3	2,926	8	2,705	13	2,384	8
Pennsylvania	**1,332**	−8	1,447	3	1,404	10	1,273	14	1,112	12
Delaware	**1,659**	−10	1,843	5	1,755	17	1,500	11	1,351	8
Maryland	**2,416**	−5	2,556	14	2,251	23	1,827	15	1,594	17
Lake States										
Michigan	**1,192**	−3	1,232	14	1,082	11	975	12	874	13
Wisconsin	**1,0**	−3	1,105	13	980	14	857	19	721	20
Minnesota	**1,197**	−3	1,231	16	1,061	18	902	19	761	13
Corn Belt										
Ohio	**1,474**	−15	1,727	3	1,678	13	1,484	19	1,243	12
Indiana	**1,715**	−13	1,972	8	1,833	15	1,589	17	1,361	14
Illinois	**1,940**	−9	2,133	6	2,013	8	1,857	14	1,626	12
Iowa	**1,802**	−7	1,941	7	1,811	17	1,548	17	1,326	6
Missouri	**872**	−7	941	7	878	21	726	14	636	16
Northern Plains										
North Dakota	**436**	3	423	6	399	15	348	16	301	9
South Dakota	**291**	0	290	6	273	6	257	13	227	17
Nebraska	**626**	−5	660	10	600	14	525	25	419	−1
Kansas	**585**	−1	590	3	573	15	500	19	421	5

[1] Average value per acre of land and buildings, and percent change from the previous year, by state, grouped by farm production region.
[2] Preliminary.
[3] Average rate of change for the six New England states was used to project the dollar value for 1978-82.



EXPORTS[1]

Michigan and U.S. Agricultural Exports

Michigan agricultural exports achieved another record height with shipments totaling $943.6 million during the fiscal year ending September 30, 1981. This record marked a sharp jump of $256 million or 37 percent from the previous high of $687.3 million in FY 1980. Increased shipments for corn, dry edible beans, wheat and soybeans accounted for about $240 million gains or most (94 percent) of the increase.

In FY 1981, Michigan ranked 15th among all states in exports of agricultural products, improved from 20th in FY 1980. The top ten leading states, in descending order, were Iowa ($3,737.2 million), Illinois, California, Texas, Minnesota, Kansas, Nebraska, Indiana, Ohio and Missouri ($1,318.6 million).

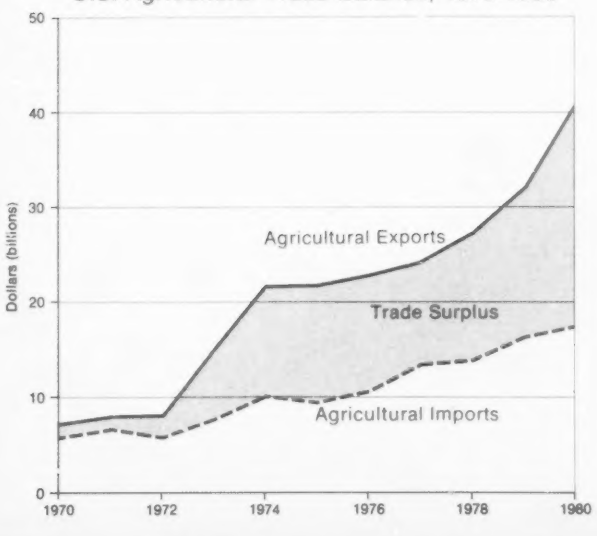
Total Agricultural Exports

FISCAL YEAR	Michigan	United States
	Million Dollars	
1981	**943.6**	**43,800.0**
1980	687.3	40,480.5
1979	494.4	31,975.4
1978	493.4	27,306.2
1977	372.7	23,973.9

Source: USDA, ERS, (FATUS)

For individual commodity groups, Michigan's exports of vegetables and dry edible beans ranked third in the nation following California and Washington. In addition, Michigan ranked sixth in exports of dairy products, seventh in fruit and fruit preparations, and ninth in feed grains and products.

U.S. Agricultural Trade Balance, 1970-1980



Feed grains and products led Michigan farm commodity exports again in FY 1981 with the value surging 42 percent above the previous year to $406.5 million. Sales of these items accounted for 43 percent of the state's total farm exports.

Vegetables and dry edible beans including processed items were the second important export products, with a total of $154.5 million or 16 percent of the state's total agricultural exports. This was 85 percent larger than the previous year's level of $83.4 million.

Soybeans and soybean products were next in line with $136.4 million or 14 percent of the state total. This represented an increase of 19 percent or $21.7 million above the previous year's $114.7 million.

Wheat and wheat product exports also continued their upward trend to $121.4 million from $95 million and accounted for about 13 percent of the state's total agricultural exports in FY 1981.

Exports of fruit and fruit preparations totaled $34 million, up nearly $10 million from $24.2 million in FY 1980.

Other important products exported during FY 1981 included animals and meats, hides and skins, dairy products, fats, oils and greases.

Michigan Exports by Commodity

COMMODITIES	**1981**	1980	1979	1978	1977
	Million Dollars				
Feed Grains & Products	**406.5**	285.7	186.3	184.4	130.6
Wheat & Products	**121.4**	95.2	51.8	70.9	53.3
Soybeans & Products	**136.4**	114.7	76.2	78.6	50.7
Fruits & Preparations	**34.0**	24.2	22.9	17.6	10.5
Vegetables & Dry Edible Beans	**154.5**	83.4	74.5	66.0	61.5
Livestock & Products	**61.0**	57.5	49.1	42.4	39.8
Other	**29.8**	26.6	33.6	33.5	26.3
TOTAL	**943.6**	687.3	494.4	493.4	372.7

Source: USDA, ERS, (FATUS)

Remark: Commodities usually pass through several transfer, collection, decision points and states, and are co-mingled with commodities produced in other states before actually being exported. Their identity with respect to state of origin is lost in the process.

In an effort to approximate shipments by commodity by state, total exports from the United States reported by the U.S. Customs Districts are used. These are prorated to all states producing that commodity according to the proportion of national production for that state. This official compilation is made and published by the United States Department of Agriculture, Economic Research Service in a series entitled Foreign Agricultural Trade of the United States (FATUS).

[1] Data provided by: Dr. Ming W. Wu, Marketing Division, MDA; P.O. Box 30017; Lansing, Michigan 48909; (517) 373-1054.

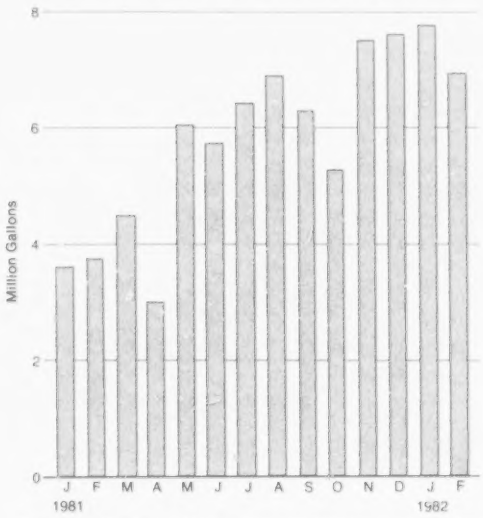
ENERGY[1]

Alcohol blended fuel (gasohol) has found a firm place in today's gasoline market, both in Michigan and nationally. In 1981, national sales of the blended fuel exceeded the 710 million gallon mark. Ethanol being one-tenth of this figure, means that over 71 million gallons of the alcohol was sold. Most of this ethanol was produced in the United States. Foreign imports of ethanol have dropped considerably since the U.S. government increased an additional ten cents tariff. Imports from Brazil, United Kingdom, Argentina and Canada totaled approximately 2.3 million gallons.

In Michigan 66.2 million gallons of blended fuel was sold. Our 1981 sales figure ranks fourth behind Iowa, California and Illinois. As far as intrastate production is concerned, Michigan has three plants with production capacity for anhydrous ethanol: Litchfield (1.5 million gallons/year); Sturgis (.6 million gallons/year); and the third, Alma (8.0 million gallons/year). Full production of the Alma plant will not be realized until August, 1982.

There are about 8 other ethanol production facilities proposed for Michigan ranging from 500,000 gallons to 20 million gallons per year. However, they are all in the financing or engineering design stage. One of these plants plans to utilize waste wood as its primary feedstock.

Gasohol Sales in Michigan



[1] Data provided by: Vincent Parris, Marketing Division, MDA, P.O. Box 30017, Lansing, Michigan 48909, (517) 373-1054.

Number of Gallons of Gasohol Sold in Michigan

MONTHS	1982	1981	1980	1979
January	**7,731,884**	3,619,280	492,229	—
February	**6,913,271**	3,756,140	1,089,411	—
March	—	4,492,190	751,700	—
April	—	3,008,974	1,113,949	—
May	—	6,013,891	3,065,190	—
June	—	5,745,617	2,776,604	—
July	—	6,411,793	3,562,626	—
August	—	6,861,596	2,562,250	—
September	—	6,269,219	3,914,390	95,466
October	—	5,227,087	3,633,890	10,000
November	—	7,472,888	3,146,214	33,552
December	—	7,651,074	3,430,055	135,999
TOTAL	**14,645,155**	66,243,561	29,538,508	275,017

Source: Department of Treasury.
Note: Figures not available for the first 8 months of 1979.

Commercial Fertilizer Usage, Michigan

YEAR[1]	Kind of Fertilizer			Primary Nutrients			
	Mixtures	Direct Application Materials Primary Nutrients	Total[2]	Total Nitrogen	Available Phosphoric Acid	Potash	Total[3] NPK
				Tons			
1981	**677,906**	**651,551**	**1,333,709**	**246,206**	**171,978**	**257,166**	**675,350**
1980	669,363	597,254	1,272,556	236,458	163,382	243,465	643,305
1979	685,086	610,937	1,303,350	239,842	173,699	249,769	663,310
1978	677,416	542,989	1,225,687	216,222	168,474	233,884	618,579
1977	682,438	505,782	1,195,006	217,448	161,701	219,237	598,386

[1] Years end June 30.
[2] Total includes micronutrients not listed separate.
[3] The sums of individual items may not equal totals due to rounding.

INCOME, PRICES AND LABOR

Poor financial conditions continued for most of the nation's farmers during 1981. Preliminary U.S. data for 1981 indicates that cash receipts increased 4 percent, while production expenses rose 8 percent. This points to a 7 percent decline in net cash income for the farm sector. This was the second consecutive year of declining net cash income.

Crop cash receipts rose 6 percent from 1980 levels. This increase was due to higher volume and higher prices that prevailed in early 1981. Prices for most major crops fell sharply during the last few months of 1981 following large harvests. Livestock receipts rose only 3 percent in 1981. Higher dairy and poultry receipts offset lower meat animal receipts.

U.S. farmland values fell an average of 1 percent during the year ending April 1, 1982. With land values falling and the rate of inflation still rising, the real value of U.S. farmland dropped about 9 percent during 1981. Michigan farmland values declined an average of 3 percent.

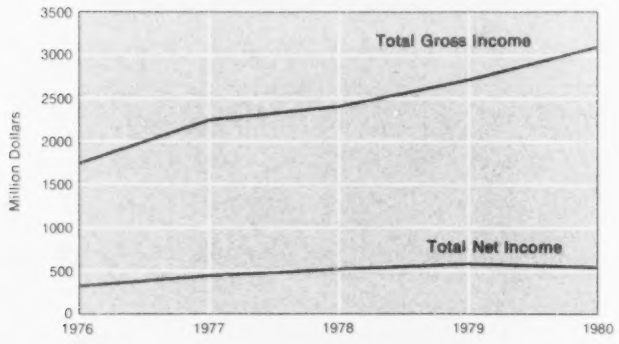
As the year ended, farm interest rates remained quite high, collateral requirements were rising and farmer's income prospects (both on and off the farm) were at a reduced level. This placed farmers with low equity in a very unfavorable position leading into the 1982 crop year. As 1981 ended, delinquencies on farm loans were rising in most regions of the U.S. A 9 percent rise in cash production expenses during 1981 was a key factor in the poor farm income picture. Michigan farmers faced rising production input costs and in addition, faced declining off-farm employment opportunities Favorable weather resulted in record corn and wheat crops, but this higher volume was offset by lower market prices. Dry bean and fruit production declined, while vegetable output and receipts increased. Higher Michigan milk and egg production resulted in slightly higher livestock receipts but this was offset by lower hog production and lower cattle and sheep prices. Also, as 1981 ended the outlook for dairy farm income was less favorable due to lower milk prices, decreasing demand for dairy products, and proposed milk price support program changes.

Farm Income

The latest available farm income statistics for Michigan cover the year 1980. During 1980, net farm income decreased for the first time in four years. Due largely to sharply rising production expenses, net farm income fell 12 percent to $515 million. As a percentage of gross income, 1980 net income was at its lowest level since 1976. The trend toward farmers handling larger amounts of money but keeping relatively less of it as net income continued during 1980.

Farm production expenses increased 17 percent to a record $2.6 billion in 1980. Gross income increased 14 percent to a record $3.1 billion. From 1975 to 1980, gross income increased an average of 10.5 percent a year, while farm costs increased an average of 12.5 percent. Payments to producers under government feed grain and wheat programs were down sharply in 1980. Total government payments were just under $11 million, less than ½ of 1 percent of total gross farm income. Net income per farm averaged just over $7,800.

Total Gross and Net Income, Michigan



Gross and Net Income, Michigan[1]

ITEM	1980	1979	1978	1977[2]	1976
			Million Dollars		
Realized Gross Farm Income					
Cash receipts from farm marketings	**2,693.6**	2,361.5	2,056.3	1,950.5	1,721.1
Government payments	**10.7**	15.6	45.5	21.2	7.3
Non money income	**339.9**	296.8	263.0	248.4	196.0
Other farm income	**42.3**	40.6	32.7	29.9	25.2
Total gross farm income	**3,086.5**	2,714.6	2,397.5	2,249.9	1,949.6
Farm production expenses	**2,611.9**	2,225.4	1,916.2	1,741.4	1,593.1
Realized net farm income	**474.6**	489.2	481.3	508.5	356.5
Total net farm income	**515.4**	587.6	498.7	434.0	321.3
Net change in farm inventories	**40.9**	98.4	17.4	−74.5	−35.2

[1] Items may not add to totals due to rounding.
[2] Beginning with 1977, based on the new farm definition.

Income per Farm

YEAR[3]	Michigan			United States		
	Realized Gross Income[1]	Realized Net Income[1]	Total Net Income[2]	Realized Gross Income[1]	Realized Net Income[1]	Total Net Income[2]
	Dollars			*Dollars*		
1980	**46,764**	**7,190**	**7,810**	**62,818**	**9,002**	**8,180**
1979	41,130	7,412	8,903	60,318	11,256	13,456
1978	36,325	7,292	7,556	52,118	10,625	10,860
1977	33,087	7,478	6,382	43,860	7,093	7,489
1976	25,994	4,753	4,284	38,051	7,687	6,823

[1] Excludes changes in inventories, and represents income of farm operators.
[2] Includes changes in inventories.
[3] Beginning in 1977, based on the new farm definition.

Income Per Farm

Cash Income and Government Payments, Michigan[1]

YEAR	Cash Income from Farm Marketing			Other Income		Total Gross Farm Income
	Crops	Livestock and Livestock Products	Total	Government Payments	Other Sources[2]	
			Million Dollars			
1981	**1,647.9**	**1,187.4**	**2,835.3**	**17.3**	**NA**	**NA**
1980	1,574.7	1,118.8	2,693.6	10.7	382.2	3,086.5
1979	1,357.7	1,003.8	2,361.5	15.6	337.4	2,714.6
1978	1,071.7	984.6	2,056.3	45.5	295.7	2,397.5
1977	1,119.1	831.4	1,950.5	21.2	278.3	2,249.9

[1] Items may not add to totals due to rounding.
[2] Includes non money income and other farm income, and home consumption.

Government Payments, Michigan

PROGRAM	1980	1979	1978	1977	1976
			1,000 Dollars		
Conservation Practices	4,074	3,753	4,717	4,347	4,890
Sugar Act	[1]	[1]	[1]	976	—
Wheat Programs	242	200	9,688	11,283	143
Feed Grain Programs	3,428	9,115	24,547	449	1,013
Drought and Flood Program	3	36	93	3,530	—
Cropland Adjustment	—	—	—	—	833
Misc. Programs	2,919	2,489	6,465	610	421
TOTAL	10,666	15,593	45,510	21,195	7,300

[1] Sugar Act included in miscellaneous for 1978-80

Cash Receipts from Marketings, Michigan

PRODUCT	1980	1979	1978	1977	1976
			1,000 Dollars		
LIVESTOCK & PRODUCTS TOTAL	1,118,819	1,003,837	984,560	831,355	812,249
Dairy	647,602	571,725	496,661	452,265	447,786
Cattle & Calves	237,075	208,564	306,803	197,986	168,812
Hogs	135,148	124,490	87,278	91,094	102,205
Eggs	57,760	61,376	57,811	61,898	67,312
Sheep & Lambs	5,438	4,114	5,320	3,889	2,874
All Chickens	4,786	5,438	3,871	2,932	3,272
Wool	703	682	697	744	549
Other	30,307	27,448	26,119	20,547	19,439
CROPS TOTAL	1,574,749	1,357,686	1,071,697	1,119,141	908,828
Field Crops:					
Corn	477,773	318,552	248,791	286,968	262,828
Dry Edible Beans	155,957	111,234	80,783	111,802	78,857
Soybeans	208,684	194,586	97,133	134,660	79,251
Sugarbeets	73,599	60,295	41,595	36,100	34,496
Wheat	120,212	102,468	50,355	82,324	81,360
Potatoes	50,127	67,729	37,269	40,961	36,975
Hay	21,369	23,267	32,403	26,160	24,849
Oats	19,258	16,635	15,204	16,247	18,800
Mint	1,498	1,475	1,310	1,304	1,186
Red Clover Seed	580	745	813	1,041	1,882
Rye	864	984	681	418	476
Barley	1,330	1,315	1,492	1,740	1,790
Vegetables	130,364	136,813	128,437	111,991	95,501
Other	23,543	13,341	17,568	17,794	12,146
Fruit:					
Apples	73,386	75,314	73,192	52,914	39,009
Blueberries	14,104	16,164	17,820	[1]	[1]
Cherries	40,181	59,194	73,370	57,901	27,831
Grapes	12,443	12,810	15,000	7,072	2,179
Peaches	7,622	6,732	9,504	8,502	5,584
Strawberries	8,358	10,041	7,973	6,280	5,798
Pears	2,405	2,606	2,930	1,673	1,512
Plums & Prunes	2,575	2,873	3,279	1,953	2,105
Other[1]	1,030	971	777	8,872	15,805
Other Products:					
Forest & Maple	17,720	16,475	14,768	12,657	12,002
Greenhouse, Nursery	109,767	105,067	99,250	91,807	66,606
ALL COMMODITIES	2,693,568	2,361,523	2,056,257	1,950,496	1,721,077
GOVERNMENT PAYMENTS	10,666	15,593	45,510	21,195	7,300
TOTAL	2,704,234	2,377,116	2,101,767	1,971,691	1,728,377

[1] Prior to 1978 Blueberries included in other.

Prices Received by Farmers

Prices Received for Field Crops

YEAR[1] AND MONTH	Corn per Bu.	Wheat per Bu.	Oats per Bu.	Soy-beans per Bu.	Dry Beans per Cwt.	Navy Beans per Cwt.	Potatoes per Cwt.	All Hay per Ton	Alfalfa[2] Hay per Ton
					Dollars				
1981 January	3.19	4.00	2.23	7.23	24.80	24.10	9.40	38.50	40.00
February	3.20	3.58	2.24	6.96	26.10	26.00	11.10	40.50	42.00
March	3.14	3.24	2.30	7.34	29.70	29.50	11.30	38.50	40.00
April	3.18	3.07	2.28	7.26	30.60	30.70	11.30	38.50	40.00
May	3.14	2.94	2.24	7.20	38.80	39.00	12.20	40.00	43.00
June	2.99	2.96	2.23	6.90	40.20	40.40	12.20	35.00	37.00
July	3.15	3.42	1.86	6.97	37.10	37.60	10.00	33.50	35.50
August	2.84	3.49	1.82	6.51	25.00	23.80	7.80	47.00	50.00
September	2.58	3.60	1.80	6.26	24.40	24.90	6.80	47.00	50.00
October	2.39	3.81	1.86	6.19	26.90	28.50	6.20	56.00	60.00
November	2.28	3.78	2.10	5.97	27.50	30.40	6.70	61.00	65.00
December	2.23	3.59	2.17	5.89	26.40	29.80	5.70	61.00	65.00
1981	2.86	3.46	2.09	6.72	29.63	30.39	9.23	44.70	47.30
1980	3.05	3.60	1.85	7.47	27.80	28.70	6.65	36.50	38.20
1979	2.46	3.82	1.45	6.13	18.50	18.50	4.44	36.00	42.40
1978	2.22	3.30	1.25	6.81	14.80	14.30	4.57	45.50	56.60
1977	1.92	2.02	1.27	5.54	18.30	17.90	4.14	58.50	54.90

[1] Marketing year, except 1981 which is calendar year
[2] 1977-81, calendar year average

Index of Prices Received for Crop Commodity Groups (1977 = 100)

YEAR OR MONTH	Crops				
	All Crops	Cash Field	Fruit	Vegetables	Feed Crops
1981 January	133	153	106	134	128
February	135	156	108	138	130
March	137	164	108	148	126
April	137	163	108	151	128
May	142	177	109	151	127
June	139	192	80	151	120
July	136	183	80	148	122
August	126	149	88	132	122
September	125	145	124	121	113
October	124	149	123	122	108
November	126	150	124	121	112
December	125	143	125	122	114
1981	132	160	107	137	121
1980	126	131	134	104	122
1979	113	114	125	92	110
1978	106	107	118	91	102
1977	100	100	100	100	100
1947-1949	55	65	41	34	73
1935-1939	21	25	17	13	31
1910-1914	22	25	17	—	39

Prices Received for Livestock and Livestock Products

YEAR[1] AND MONTH	Hogs per Cwt.[1]	Beef Cattle per Cwt.	Milk Cows per Head[2]	Calves per Cwt.	Sheep per Cwt.	Lambs per Cwt.	Eggs per Doz.	Wool per Pound	All Milk Wholesale per Cwt.
	Dollars						*Cents*	*Cents*	*Dollars*
1981 January	**41.30**	**50.80**	**1,270**	**65.00**	**27.80**	**53.40**	**58.0**	**.76**	**14.20**
February	**41.80**	**50.50**	**1,290**	**66.40**	**27.50**	**52.00**	**52.0**	**.77**	**14.10**
March	**38.50**	**49.80**	**1,280**	**70.60**	**27.00**	**54.80**	**50.0**	**.74**	**14.00**
April	**39.00**	**52.80**	**1,300**	**72.90**	**18.30**	**61.40**	**55.0**	**.69**	**13.90**
May	**42.10**	**52.60**	**1,320**	**70.80**	**15.90**	**62.50**	**50.0**	**.68**	**13.70**
June	**45.30**	**53.00**	**1,310**	**75.50**	**18.00**	**64.40**	**50.0**	**.72**	**13.50**
July	**50.30**	**51.50**	**1,300**	**70.00**	**20.70**	**57.30**	**52.0**	**.66**	**13.40**
August	**49.20**	**50.80**	**1,300**	**67.00**	**20.00**	**50.90**	**50.0**	**.66**	**13.40**
September	**48.00**	**48.60**	**1,280**	**64.00**	**19.10**	**46.30**	**53.0**	**.68**	**13.70**
October	**44.50**	**46.30**	**1,280**	**57.00**	**21.00**	**46.20**	**56.0**	**.64**	**14.00**
November	**42.40**	**45.50**	**1,250**	**52.00**	**19.00**	**42.30**	**64.0**	**.63**	**14.00**
December	**40.20**	**42.40**	**1,210**	**52.70**	**19.00**	**44.40**	**57.0**	**.64**	**14.10**
1981	**43.70**	**49.50**	**1,280**	**65.20**	**19.80**	**51.90**	**54.0**	**.70**	**13.80**
1980	38.80	55.90	1,230	82.50	27.90	63.20	48.0	.74	13.20
1979	42.90	58.20	1,080	86.60	28.00	66.60	50.0	.73	12.00
1978	47.60	44.20	665	61.60	20.30	62.10	46.5	.67	10.50
1977	40.50	32.80	535	38.80	13.80	51.60	49.6	.67	9.65

[1] Prices pertain to the marketing year, previous December through November.
[2] Animals sold for dairy herd replacement only.

Index of Prices Received for Livestock Commodity Groups (1977 = 100)

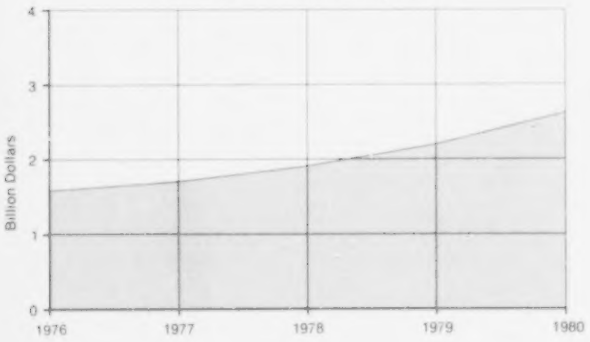
YEAR OR MONTH	Livestock				All Livestock and Crops
	All Livestock	Dairy Products	Meat Animals	Poultry and Eggs	
1981 January	**140**	**147**	**135**	**117**	**136**
February	**139**	**146**	**135**	**105**	**137**
March	**136**	**145**	**130**	**101**	**137**
April	**139**	**144**	**136**	**111**	**138**
May	**137**	**142**	**139**	**101**	**140**
June	**138**	**140**	**143**	**101**	**138**
July	**138**	**139**	**145**	**105**	**137**
August	**137**	**139**	**142**	**101**	**131**
September	**137**	**142**	**137**	**107**	**131**
October	**138**	**145**	**129**	**113**	**130**
November	**137**	**145**	**126**	**129**	**131**
December	**134**	**146**	**118**	**115**	**129**
1981	**138**	**143**	**135**	**120**	**135**
1980	137	136	147	102	131
1979	133	125	156	106	123
1978	116	109	131	101	111
1977	100	100	100	100	100
1947-1949	55	45	57	113	55
1935-1939	23	19	21	55	23
1910-1914	19	16	17	49	20

Farm Expenses

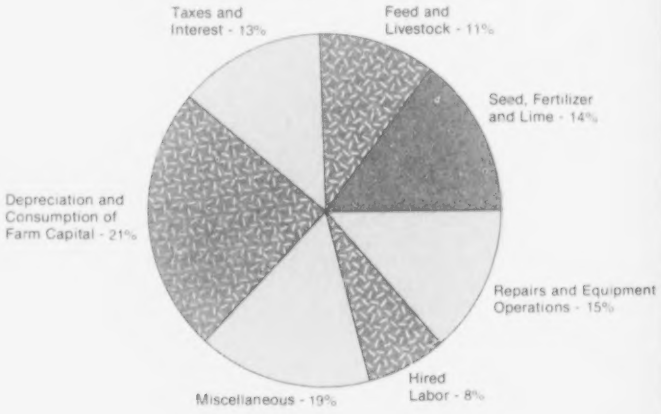
Michigan farm production expenses increased sharply in 1980, rising 17 percent above the 1979 level. Expense items showing the largest increases included interest on the farm mortgage debt, hired labor, fertilizer, and repairs and equipment operation costs. Hired labor costs alone increased 31 percent. Costs for repairs and equipment operation showed a large increase as fuel prices continued to rise during 1980. Current or short-term farm operating expenses, which comprise the major portion of total expenses, increased 18 percent. Fixed operating costs climbed 16 percent above the 1979 level.

Michigan farm expense data is not yet available for 1981. However, preliminary national data indicates that farm expenses continued to rise during 1981, but at a somewhat lower rate than 1980. Indications point to an overall increase of 7-9 percent. Items which indicated large 1981 price increases included seed, fuels and energy, new autos and trucks, tractors, and other farm machinery.

Total Production Expenses



Production Expenditures, 1980


Taxes and Interest - 13%
Feed and Livestock - 11%
Seed, Fertilizer and Lime - 14%
Depreciation and Consumption of Farm Capital - 21%
Repairs and Equipment Operations - 15%
Hired Labor - 8%
Miscellaneous - 19%

Farm Production Expenses

ITEM	1980	1979	1978	1977	1976
			Million Dollars		
Current Farm Operating Expenses:					
Feed	**212.0**	186.6	169.4	177.9	181.5
Livestock	**66.9**	54.0	33.1	28.6	29.6
Seed	**107.0**	93.0	81.0	74.2	71.1
Fertilizer & Lime	**256.6**	210.7	190.7	171.8	156.8
Repairs & Equipment Operation	**396.0**	335.6	283.6	253.6	208.6
Hired Labor	**215.2**	163.8	140.8	135.6	125.4
Miscellaneous	**452.4**	401.3	326.3	281.3	249.5
Total Current Expenses	**1,705.9**	1,445.0	1,224.9	1,123.0	1,022.5
Depreciation & Consumption of Farm Capital	**557.1**	480.7	433.4	388.6	357.1
Taxes on Farm Property	**161.9**	148.7	133.2	122.9	121.3
Interest on Farm Mortgage Debt	**170.5**	141.7	115.2	98.2	86.9
Net Rent to Non-Farm Landlords	**16.4**	9.5	9.5	8.7	5.3
Total Production Expenses[1]	**2,611.9**	2,225.4	1,916.2	1,741.4	1,593.1

[1] Items may not add to totals because of rounding

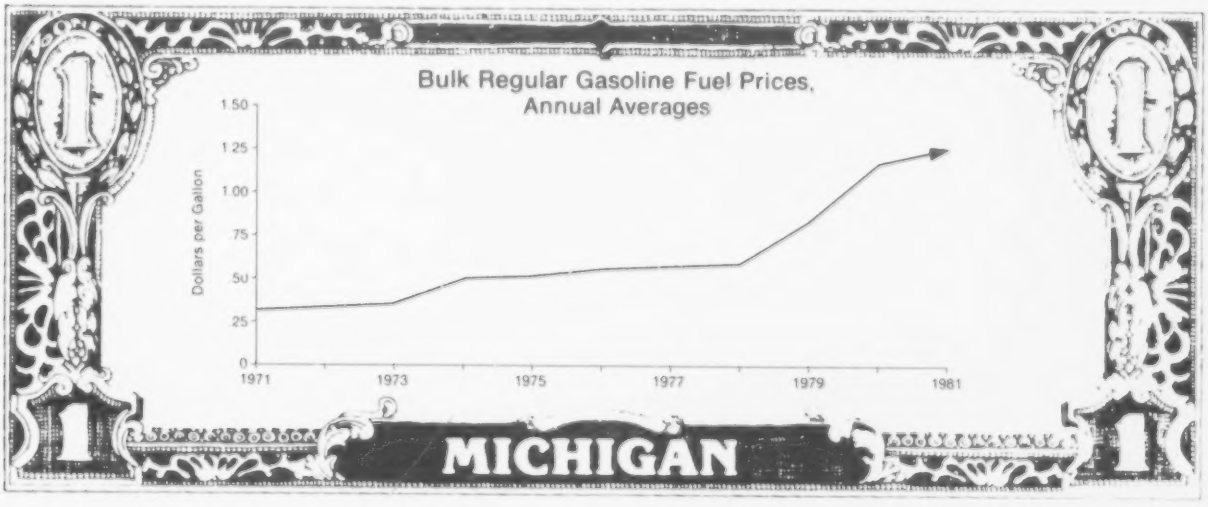
Prices Paid by Michigan Farmers: Annual Averages

COMMODITY	Unit	1981	1980	1979	1978	1977
				Dollars		
BUILDING MATERIALS:						
Framing lumber, 2" × 4" pine	M bd. ft.	**354.00**	349.00	370.00	353.00	320.00
Shingles, asphalt, 3 in 1	Sq.	**29.00**	29.00	26.00	24.00	21.50
Roofing, gal. steel, 28-29 Ga.	100 sq.ft.	**47.00**	43.00	40.50	38.00	34.60
Nails, 8d, common	Lb.	**.775**	.708	.595	.580	.540
Plywood, ½" C-D-X, 4' × 8'	Sheet	**10.05**	10.50	11.25	10.90	10.10
Insulating sheathing, ½", 4' × 8'	Sheet	**4.20**	3.55	3.85	3.80	3.35
Portland cement, 94 lb.	Bag	**5.52**	5.13	4.35	3.72	3.52
Paint, exterior	Gal.	**17.75**	15.40	14.00	13.10	12.80
FENCING:						
Barbed wire, 4 pt., 80 rds.	Spool	**37.50**	39.90	36.25	30.50	32.00
Woven wire, 32" high, 20 rds.	Roll	**72.25**	75.25	72.75	65.50	64.50
Post, wood	Ea.	**3.72**	3.12	2.25	1.95	1.96
Post, steel	Ea.	**3.20**	3.00	3.01	2.88	2.51
FEEDS:						
Chick starter	Ton	**250.00**	230.00	210.00	195.00	201.00
Laying feed	Ton	**198.00**	192.00	163.00	147.00	155.00
Dairy feed, 16%	Ton	**207.00**	189.00	165.00	158.00	164.00
Hog feed, 14-18%	Cwt.	**10.90**	9.75	8.70	7.91	7.81
Hog conc., 38-42%	Cwt.	**15.90**	15.40	14.69	13.12	14.00
Beef cattle conc., 32-36%	Cwt.	**14.00**	13.00	12.28	10.53	11.30
Soybean meal, 44%	Cwt.	**15.40**	14.00	13.28	11.85	13.20
Stock salt	Cwt.	**7.10**	6.30	5.36	4.78	4.21
MOTOR SUPPLIES:						
Gasoline, regular, bulk	Gal.	**1.275**	1.170	.830	.596	.573
Diesel fuel	Gal.	**1.199**	.998	.722	.493	.468
Motor oil, HD, detergent	Gal.	**4.10**	3.88	3.07	2.74	2.48
Grease, 35 lb.	Pail	**28.15**	24.60	19.65	17.00	14.60
Truck tire, 7.00-15, 6 ply	Ea.	**60.75**	59.00	51.12	48.38	47.90
Truck tire, 9.00-20, 10 ply	Ea.	**177.50**	156.50	141.50	'	'
Tractor tire, 15.5-38, 6 ply	Ea.	**280.00**	267.50	217.50	'	'
Tractor tire, 18.4-34, 6 ply	Ea.	**365.00**	341.00	272.50	251.00	253.00
Spark plugs	Ea.	**1.70**	1.52	1.55	1.38	1.40
FARM MACHINERY:						
Tractors: 30-39 hp.	Ea.	**10,800**	10,100	8,700	7,800	7,300
50-59 hp.	Ea.	**14,700**	13,500	12,200	10,700	9,700
110-129 hp.	Ea.	**34,700**	31,200	27,000	25,000	22,800
170-240 hp. 4-wd.	Ea.	**65,700**	59,000	50,200	46,700	44,500
Farm wagon[2]	Ea.	**1,750**	1,350	1,200	1,150	900
Manure spreader, 141-190 bu.[3]	Ea.	**4,250**	3,550	3,050	3,000	2,550
Corn planter, 4-row[4]	Ea.	**6 100**	5,600	4,700	4,350	4,200
Mower, 7 ft.	Ea.	**1,850**	1,800	1,450	1,100	1,150
Pick-up baler, pto	Ea.	**5,900**	5,500	5,200	4,450	4,200
Plows, 1-way: 3 bottom	Ea.	**2,100**	2,025	1,650	1,600	1,450
5 bottom	Ea.	**6,700**	5,850	5,450	4,700	4,250
7 bottom	Ea.	**10,000**	8,350	7,750	6,900	6,450
Disc harrow, tandem: 15-17 ft.	Ea.	**5,850**	6,000	4,875	4,675	4,150
Grain drill, 15-17 tube	Ea.	**3,800**	3,600	3,375	2,850	2,700
Cultivators, mounted: 4-row	Ea.	**2,150**	1,900	1,700	1,700	1,500
6-row	Ea.	**2,700**	2,550	2,150	2,050	1,900

Prices Paid by Michigan Farmers: Annual Averages — Continued

COMMODITY	Unit	1981	1980	1979	1978	1977
				Dollars		
FERTILIZERS:						
5-20-20	Ton	**173.00**	178.00	149.00	128.00	126.00
6-24-24	Ton	**210.00**	209.00	167.60	144.00	140.00
12-12-12	Ton	**175.00**	171.00	137.50	123.00	119.00
10-34-0	Ton	**271.00**	258.00	182.50	164.00	164.00
18-46-0	Ton	**255.00**	283.00	231.25	186.00	184.00
Ammonium Nitrate, 33.5% N	Ton	**188.00**	174.00	137.50	138.00	140.00
Anhydrous Ammonia	Ton	**254.00**	234.00	183.75	172.00	181.00
Urea, 45-46% N	Ton	**246.00**	232.00	181.25	170.00	165.00
Nitrogen solution, 28%	Ton	**136.00**	131.00	108.75	107.00	119.00
Super Phosphate, 46%	Ton	**228.00**	242.00	190.00	153.00	149.00
Muriate of Potash, 60%	Ton	**141.00**	135.00	117.50	99.00	95.00
Limestone	Ton	**14.60**	15.50	13.75	11.90	11.60
PESTICIDES:						
Malathion, 5 lb/gal. emul.[5]	5 gal.	**86.50**	77.50	62.00	13.00	13.80
2, 4-D, 4 lb/gal. emul.[5]	5 gal.	**55.00**	59.00	42.50	8.50	10.00
Atrazine, WP, 80%[6]	5 lb.	**10.75**	9.00	9.45	2.00	2.23
Sevin, WP, 80%[6]	10 lb.	**23.50**	22.00	19.50	1.85	1.88
UTILITIES:						
Electricity	Kw-hr.	**.057**	.056	.048	.048	.042
Telephone, Local Service	Month	**10.60**	9.00	9.00	9.00	8.50
LP Gas	Gal.	**.733**	.632	.449	.418	.418

[1] Not available.
[2] Gravity unload, less tires.
[3] Conveyor type, pto, 2-wheel.
[4] With fertilizer attachment.
[5] Price per gallon prior to 1979.
[6] Prices per pound prior to 1979.



Farm Labor

As part of the overall federal budget reduction programs, farm labor data was collected only for the January and April quarters during 1981. Beginning in 1982 farm labor data will be collected only once a year — during July.

Indications from the first two quarters in 1981 were that overall farm employment had increased slightly. Michigan's high unemployment rates may partially account for the increased number of hired farm workers. Both quarters showed gains in both hired workers and wage rates over the previous years levels.

Family Workers on Farms

QUARTER	1981	1980	1979	1978	1977
	1,000 Persons				
January	**57**	55	56	55	63
April	**56**	57	64	65	72
July	[1]	79	80	90	96
October		62	65	69	75
Annual Ave.		63	66	70	77

[1] Estimate discontinued.

Total Workers on Farms

QUARTER	1981	1980	1979	1978	1977
	1,000 Persons				
January	**77**	69	69	72	77
April	**78**	77	78	82	93
July	[1]	130	128	137	135
October		100	100	91	100
Annual Ave.		94	94	96	101

[1] Estimate discontinued.

Hired Workers on Farms

QUARTER	1981	1980	1979	1978	1977
	1,000 Persons				
January	**20**	14	13	17	14
April	**22**	20	14	17	21
July	[1]	51	48	47	39
October		38	35	22	25
Annual Ave.		31	28	26	25

[1] Estimate discontinued.

Wage Rates and Method of Pay

YEAR	All Hired Farm Workers	By Piece-Rate	By Other Than Piece-Rate	By Hour Only	By Cash Wages Only	By Hour Receiving Cash Wages Only
	Dollars per Hour					
1981 January	**4.25**	[1]	**4.25**	**4.14**	**4.36**	**4.36**
April[2]	4.38	[1]	4.38	4.14	4.40	4.14
1980 January	3.82	[1]	3.82	3.80	3.75	3.86
April	3.89	[1]	3.88	3.80	3.72	3.63
July	3.65	3.46	3.68	3.51	3.65	3.62
October	4.00	[1]	4.04	3.94	3.94	4.10
1979 January	3.44	[1]	3.44	3.43	3.48	3.25
April	3.45	[1]	3.44	3.30	3.34	3.29

Wage Rates by Type of Work Performed

YEAR	Field Workers	Livestock Workers	Packing-House Workers	Machine Operators
	Dollars per Hour			
1981 January	**4.20**	**3.85**	[1]	[1]
April[2]	4.25	3.95	3.66	5.15
1980 January	4.15	3.32	3.75	[1]
April	3.80	3.58	[1]	4.59
July	3.45	3.35	[1]	4.08
October	4.13	3.52	[1]	4.00
1979 January	3.30	3.00	3.50	[1]
April	3.29	3.17	[1]	[1]

[1] Insufficient data for this category — data included in all hired farm workers wage rates.
[2] Estimates discontinued after April, 1981.

FIELD CROPS

General Information

A large share of Michigan's agricultural economy is attributed to the raising and selling of field crops. In addition, the portion of the crop not sold is used on the farm as livestock feed. In 1981, field crop farmers set new production records for corn and sugarbeets, and obtained record yields for corn, wheat, oats and hay.

Michigan ranks first in the nation in dry bean production. Its sugarbeet crop ranks fifth. In oats, spearmint, corn silage, corn for grain, rye and alfalfa hay, Michigan is among the top ten. In terms of cash receipts, corn, soybeans, dry beans, hay and wheat are the most important Michigan field crops.

Spring plowing and planting for the 1981 season started in late March, about two weeks ahead of normal. Widespread rains during late April and early May interrupted progress but planting was completed about on schedule. Summer weather was generally favorable and crop development was near normal. Heavy rains during September severely hampered dry bean and corn silage harvest and delayed the beginning of sugarbeet, soybean and corn for grain harvest. Dry beans bore the brunt of the adverse weather as potential yields were lowered and considerable acreage was abandoned. Warm, sunny weather returned in late October and farmers were able to finish combining their corn and soybeans nearly on schedule.

Acreage and Production, United States

CROP	Acreage Harvested		Unit	Yield per Acre		Production	
	1981	1980		**1981**	1980	**1981**	1980
	1,000 Acres					*1,000*	
Corn, for grain	**74,624**	73,030	Bu.	**109.9**	91.0	**8,200,951**	6,644,841
Corn, silage	**8,211**	9,241	Ton	**14.1**	12.0	**116,183**	110,973
Oats	**9,411**	8,652	Bu.	**54.0**	53.0	**508,083**	458,263
Barley	**9,151**	7,275	Bu.	**52.3**	49.6	**478,301**	360,956
Wheat, all	**80,948**	70,984	Bu.	**34.5**	33.4	**2,793,436**	2,374,306
Winter	**58,589**	51,494	Bu.	**35.8**	36.8	**2,098,719**	1,895,383
Durum	**5,755**	4,840	Bu.	**32.3**	22.4	**185,940**	108,395
Other Spring	**16,604**	14,650	Bu.	**30.6**	25.3	**508,777**	370,528
Rye	**697**	675	Bu.	**26.7**	24.4	**18,621**	16,483
Soybeans	**66,588**	67,856	Bu.	**30.4**	26.4	**2,030,452**	1,792,062
Popcorn	**247.2**	223.0	Lb.	**3,142**	2,477	**776,620**	552,310
Hay, all	**60,212**	59,362	Ton	**2.38**	2.21	**143,105**	131,027
Hay, alfalfa	**26,394**	26,244	Ton	**3.17**	3.04	**83,696**	79,879
Dry Beans	**2,201.0**	1,821.0	Cwt.	**14.45**	14.49	**31,814**	26,395
Potatoes, all	**1,231.6**	1,154.4	Cwt.	**271**	262	**333,682**	302,857
Sugarbeets	**1,229.8**	1,189.5	Ton	**22.2**	19.8	**27,271**	23,502
Maple Sirup	**—**	—	Gal.	**—**	—	**1,410**	973
Peppermint, for oil	**69.5**	81.3	Lb.	**60**	57	**4,191**	4,611
Spearmint, for oil	**29.0**	31.3	Lb.	**73**	68	**2,129**	2,139

Field Crop Acreage, Production and Value; Michigan

CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000			*1,000*		*Dollars per Unit*	*1,000 Dollars*
CORN, all	**1981**	**3,200**	—	—	—	—	—	—
	1980	2,950	—	—	—	—	—	—
	1979	2,900	—	—	—	—	—	—
	1978	2,850	—	—	—	—	—	—
	1977	3,000	—	—	—	—	—	—
CORN, for grain	**1981**	—	**2,850**	**Bu.**	**96**	**273,600**	**2.35**	**642,960**
	1980	—	2,600	Bu.	95	247,000	3.05	753,350
	1979	—	2,500	Bu.	95	237,500	2.46	584,250
	1978	—	2,400	Bu.	81	194,400	2.22	431,568
	1977	—	2,490	Bu.	85	211,650	1.92	406,368
CORN, silage	**1981**	—	**320**	**Ton**	**13.0**	**4,160**	**19.80**	**82,368**
	1980	—	325	Ton	13.5	4,388	19.20	84,250
	1979	—	370	Ton	13.5	4,995	16.20	80,919
	1978	—	420	Ton	12.5	5,250	16.30	85,575
	1977	—	445	Ton	12.5	5,565	16.70	92,936
WINTER WHEAT	**1981**	**840**	**830**	**Bu**	**50**	**41,500**	**3.55**	**147,325**
	1980	820	800	Bu.	44	35,200	3.60	126,720
	1979	750	735	Bu.	43	31,605	3.82	120,731
	1978	430	410	Bu.	40	16,400	3.30	54,120
	1977	870	825	Bu.	40	33,000	2.02	66,660
OATS	**1981**	**360**	**340**	**Bu.**	**62**	**21,080**	**1.90**	**40,052**
	1980	355	335	Bu.	60	20,100	1.85	37,185
	1979	330	310	Bu.	61	18,910	1.45	27,420
	1978	440	410	Bu.	57	23,370	1.25	29,213
	1977	400	340	Bu.	55	18,700	1.27	23,749
BARLEY	**1981**	**27**	**26**	**Bu.**	**52**	**1,352**	**3.10**	**4,191**
	1980	23	21	Bu.	53	1,113	3.75	4,174
	1979	21	20	Bu.	47	940	2.65	2,491
	1978	23	22	Bu.	47	1,034	2.60	2,688
	1977	24	22	Bu.	52	1,144	2.53	2,894
RYE	**1981**	**130**	**19**	**Bu.**	**28**	**532**	**2.90**	**1,543**
	1980	130	21	Bu.	24	504	2.85	1,436
	1979	135	25	Bu.	25	625	2.75	1,719
	1978	130	25	Bu.	24	600	2.05	1,230
	1977	115	19	Bu.	24	456	1.65	752
SOYBEANS	**1981**	**980**	**970**	**Bu.**	**30**	**29,100**	**6.35**	**184,785**
	1980	960	950	Bu.	32	30,400	7.47	227,088
	1979	1,020	1,010	Bu.	30	30,300	6.13	185,739
	1978	910	900	Bu.	24	21,600	6.81	147,096
	1977	780	770	Bu.	31	23,870	5.54	132,240
DRY BEANS[2]	**1981**	**650**	**590**	**Cwt.**	**1,220**	**7,198**	**26.50**	**190,747**
	1980	590	570	Cwt.	1,360	7,752	27.80	215,506
	1979	470	460	Cwt.	1,400	6,440	18.50	119,140
	1978	530	520	Cwt.	1,150	5,980	14.80	88,504
	1977	550	480	Cwt.	1,180	5,664	18.30	103,651

Field Crop Acreage, Production and Value; Michigan

CROP	YEAR	Acreage		Production			Price Received[1]	Value of Production
		Planted	Harvested	Unit	Per Acre	Total		
		1,000			*1,000*		*Dollars per Unit*	*1,000 Dollars*
SUGARBEETS	**1981**	**102.0**	**99.0**	**Ton**	**20.5**	**2,030**	[3]	[3]
	1980	99.0	97.0	Ton	19.5	1,892	40.70	77,004
	1979	93.0	88.0	Ton	17.6	1,550	38.90	60,295
	1978	93.0	91.5	Ton	19.3	1,770	23.50	41,595
	1977	92.3	85.5	Ton	21.0	1,796	20.10	36,100
POTATOES, all	**1981**	**40.5**	**38.3**	**Cwt.**	**222**	**8,503**	**6.65**	**56,432**
	1980	41.0	39.8	Cwt.	227	9,022	6.65	59,788
	1979	41.9	40.6	Cwt.	235	9,548	4.44	42,411
	1978	43.5	42.3	Cwt.	235	9,953	4.57	45,479
	1977	42.0	39.8	Cwt.	257	10,243	4.14	42,376
POTATOES, summer	**1981**	**8.5**	**8.3**	**Cwt.**	**175**	**1,453**	[3]	[3]
	1980	8.5	8.3	Cwt.	195	1,619	6.75	10,928
	1979	8.9	8.6	Cwt.	180	1,548	4.40	6,811
	1978	8.5	8.3	Cwt.	175	1,453	4.80	6,974
	1977	8.0	7.8	Cwt.	185	1,443	4.18	6,032
POTATOES, fall	**1981**	**32.0**	**30.0**	**Cwt.**	**235**	**7,050**	[3]	[3]
	1980	32.5	31.5	Cwt.	235	7,403	6.60	48,860
	1979	33.0	32.0	Cwt.	250	8,000	4.45	35,600
	1978	35.0	34.0	Cwt.	250	8,500	4.53	38,505
	1977	34.0	32.0	Cwt.	275	8,800	4.13	36,344
HAY, all	**1981**	**—**	**1,270**	**Ton**	**3.07**	**3,894**	**49.50**	**192,753**
	1980	—	1,310	Ton	2.93	3,844	36.50	140,306
	1979	—	1,330	Ton	2.88	3,833	36.00	137,988
	1978	—	1,430	Ton	2.70	3,857	45.50	175,494
	1977	—	1,300	Ton	2.20	2,855	58.50	167,018
HAY, alfalfa	**1981**	**—**	**1,000**	**Ton**	**3.30**	**3,300**	**—**	**—**
	1980	—	1,020	Ton	3.20	3,264	—	—
	1979	—	1,040	Ton	3.10	3,224	—	—
	1978	—	1,140	Ton	2.90	3,306	—	—
	1977	—	1,000	Ton	2.45	2,450	—	—
RED CLOVER SEED[4]	**1981**	**—**	**16**	**Lb.**	**95**	**1,520**	**52.50**	**798**
	1980	—	16	Lb.	95	1,520	53.00	806
	1979	—	26	Lb.	95	2,470	49.00	1,210
	1978	—	25	Lb.	85	2,125	49.00	1,041
	1977	—	25	Lb.	85	2,125	57.00	1,211
POPCORN[5]	**1981**	**7.0**	**6.9**	**Lb.**	**3,500**	**24,150**	**12.80**	**3,091**
	1980	7.0	6.9	Lb.	2,750	18,980	9.60	1,822
	1979	5.5	5.4	Lb.	3,400	18,360	9.00	1,652
	1978	2.2	2.1	Lb.	3,450	7,250	8.20	595
	1977	2.0	1.9	Lb.	3,750	7,125	8.55	609
MAPLE SIRUP	**1982**	**Estimate Discontinued**						
	1981	—	—	Gal.	—	91	19.40	1,765
	1980	—	—	Gal.	—	83	17.10	1,419
	1979	—	—	Gal.	—	85	16.00	1,360
	1978	—	—	Gal.	—	80	14.00	1,120
	1977	—	—	Gal.	—	90	13.40	1,206
SPEARMINT, for oil	**1981**	**—**	**3.8**	**Lb.**	**31**	**118**	**15.50**	**1,829**
	1980	—	3.7	Lb.	29	107	13.70	1,466
	1979	—	3.8	Lb.	31	118	13.00	1,534
	1978	—	3.6	Lb.	29	104	12.60	1,310
	1977	—	3.3	Lb.	24	79	16.50	1,304

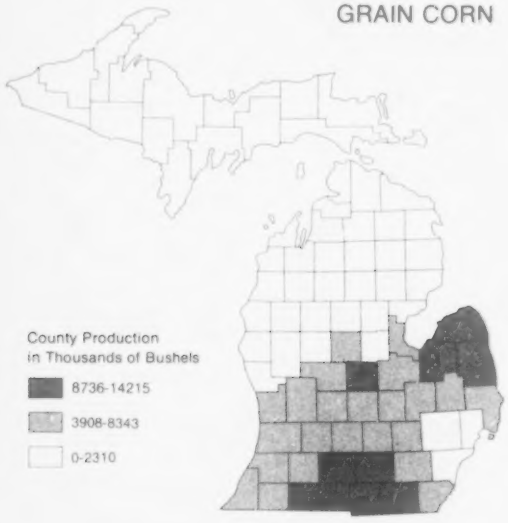
[1] Marketing year.
[2] Production per acre in pounds.
[3] Not available at time of publication.
[4] Clean seed basis, and price per Cwt.
[5] Shelled corn basis, price per Cwt.

Corn

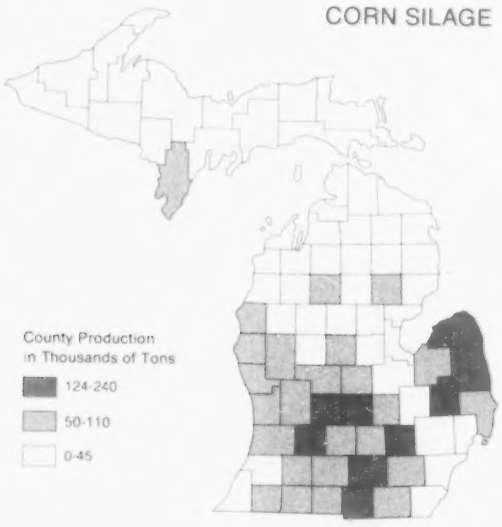
Corn is Michigan's leading crop in both acreage and value of production. The 1981 corn for grain crop was worth about 650 million dollars — a value more than three times that of the nearest competitors; soybeans, dry beans and alfalfa hay.

The 1981 corn crop established new records for planted acreage, acreage harvested for grain, yield and production. The record production of nearly 274 million bushels made Michigan the eighth largest producing state in the nation. Silage production declined 5 percent from 1980. Nationally, corn production in 1981 totaled a record 8.2 billion bushels, 23 percent above the drought-striken 1980 crop and 3 percent above the previous record crop set in 1979.

GRAIN CORN



CORN SILAGE



Grain Corn Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**2,850**	**96**	**273,600**
1980	2,600	95	247,000
1979	2,500	95	237,500
1978	2,400	81	194,400
1977	2,490	85	211,650

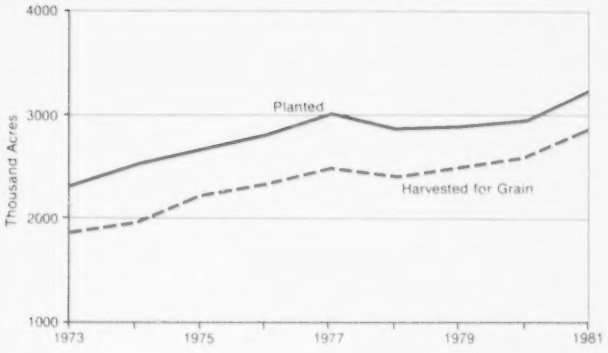
Corn Silage Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1981	**320**	**13.0**	**4,160**
1980	325	13.5	4,388
1979	370	13.5	4,995
1978	420	12.5	5,250
1977	445	12.5	5,565

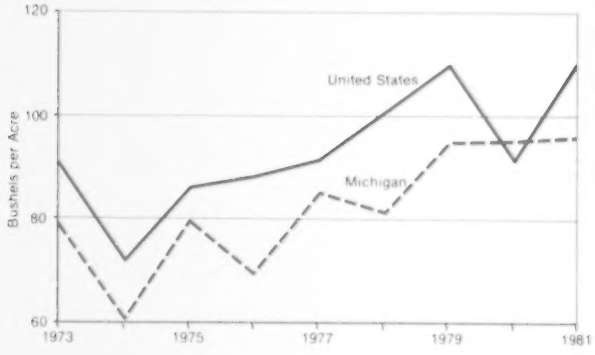
Grain Corn Stocks by Quarter

YEAR	January 1		April 1		June 1		October 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1982	**158,688**	**52,775**	**117,648**	**36,145**	—	—	—	—
1981	130,910	47,234	81,510	26,901	61,750	17,458	17,290	8,779
1980	142,500	42,376	97,375	27,477	66,875	19,225	16,625	7,707
1979	128,304	35,485	83,592	23,736	46,656	16,904	19,440	3,798
1978	118,524	33,665	74,078	27,014	52,913	19,744	16,932	5,810
1977	80,730	22,769	56,511	19,841	38,750	10,773	12,917	4,115

Michigan Corn Acreage



Corn for Grain Yields



Grain Corn Harvest Methods[1]

DISTRICT[2]	Combine With Corn Head		Mechanical Picker		Field Picker-Sheller		Other Methods	
	1981	1979	**1981**	1979	**1981**	1979	**1981**	1979
	Percent of Harvested Acres							
Northern (1, 2 & 3)	**60**	62	**19**	27	**15**	4	**6**	7
West Central (4)	**85**	64	**13**	36	**2**	—	—	—
Central (5)	**89**	75	**8**	12	**3**	13	—	—
East Central (6)	**85**	86	**9**	10	**2**	4	**4**	—
Southwest (7)	**80**	74	**15**	12	**2**	14	**3**	—
South Central (8)	**82**	81	**15**	12	**3**	7	—	—
Southeast (9)	**88**	82	**8**	13	**4**	5	—	—
All Farms	**83**	79	**12**	13	**3**	8	**2**	—

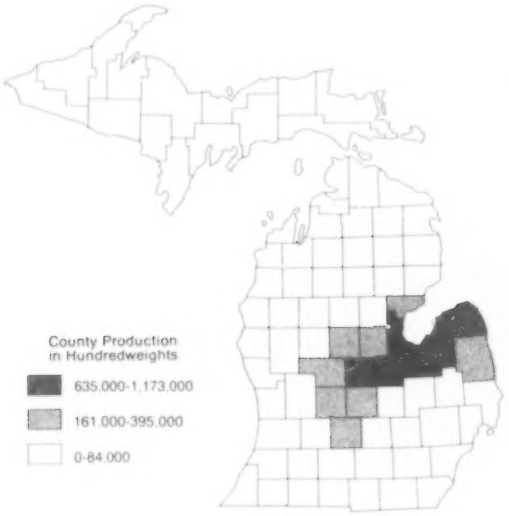
Grain Corn Disposition at Time of Harvest[1]

DISTRICT[2]	Marketed				Stored			
	Without Drying		After Drying		On Farm		Off Farm	
	1981	1979	**1981**	1979	**1981**	1979	**1981**	1979
Northern (1, 2 & 3)	**21**	4	**2**	—	**72**	86	**5**	10
West Central (4)	**30**	31	**3**	3	**35**	61	**32**	5
Central (5)	**11**	26	**3**	4	**56**	54	**30**	16
East Central (6)	**15**	17	**3**	4	**65**	56	**17**	23
Southwest (7)	**13**	7	**4**	3	**74**	80	**9**	10
South Central (8)	**16**	10	**5**	10	**59**	66	**20**	14
Southeast (9)	**17**	17	**5**	4	**65**	61	**13**	18
All Farms	**16**	14	**4**	6	**64**	65	**16**	15

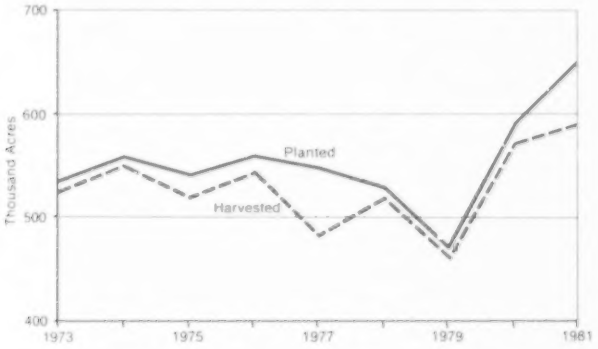
[1] Source: Corn Harvesting and Marketing Survey 1981.
[2] See page 61 for district boundaries.

Dry Beans

Dry beans are an important and valuable sector of Michigan agriculture. The fertile soils of the Bay-Thumb area are the heart of Michigan's production. Nearly 25 percent of all dry edible beans in the U.S. and 75 percent of all navy beans are Michigan grown. Colored beans again took the spotlight during 1981. Production of black turtle soup and pinto beans increased 64 percent and 67 percent, respectively, in response to a continued favorable export market to Mexico. Navy production fell 7 percent as heavy Fall rains cut potential yields and increased abandonment. Value or production for the 1981 dry bean crop at $191 million fell 11 percent in response to sharply lower prices.



Michigan Dry Edible Bean Acreage



Dry Bean Acreage, Yield, Production

YEAR	Harvested Acres	Yield Per Acre Harvested	Production
	1,000	*Pounds*	*1,000 Cwt.*
1981	**590**	**1,220**	**7,198**
1980	570	1,360	7,752
1979	460	1,400	6,440
1978	520	1,150	5,980
1977	480	1,180	5,664

Dry Bean Production by Kinds

YEAR	Total	Navy Beans	Red Kidney	Cran-berry	Pinto	Black Turtle	Others
	1,000 Cwt.						
1981	**7,198**	**4,070**	**351**	**273**	**384**	**1,990**	**130**
1980	7,752	4,827	390	330	850	1,210	145
1979	6,440	5,260	410	310	112	165	183
1978	5,980	4,974	408	361	89	80	68
1977	5,664	4,884	230	390	65	47	48

Navy Bean Acreage, Yield, Production

YEAR	Harvested Acres	Yield Per Acre[1] Harvested	Production
	1,000	*Pounds*	*1,000 Cwt.*
1981	**370**	**1,100**	**4,070**
1980	370	1,305	4,827
1979	375	1,400	5,260
1978	444	1,120	4,974
1977	405	1,200	4,884

[1] Yield derived.

Dry Bean Monthly Farm Marketings

CROP YEAR	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug
	Percent											
1980	**12**	**18**	**11**	**10**	**8**	**6**	**9**	**7**	**6**	**5**	**4**	**4**
1979	20	22	9	6	6	9	6	2	2	6	8	4
1978	20	14	9	7	8	5	5	7	7	8	6	4
1977	14	17	12	9	6	7	7	6	5	7	5	5
1976	21	10	7	7	7	4	9	12	7	9	5	2

Soybeans

Soybean planting got off to a late start in 1981 due to excessive moisture during May. Favorable weather in late May and early June allowed planting to progress rapidly and finish nearly on time. The 980,000 acres planted in 1981 was 2 percent above the previous year's crop. Abandonment was near normal with a loss of 10,000 acres. The late planting coupled with hot dry weather during July lowered yield potential. The yield of 30 bushels per acre was 2 bushels below last year's record. Production at over 29 million bushels dropped 4 percent from a year earlier. The price decline of more than one dollar per bushel caused the value of the 1981 crop to drop 19 percent to just under 185 million dollars. Michigan soybeans are grown primarily for their oil content; but after crushing, the meal by-product is an excellent source of protein for livestock.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**970**	**30**	**29,100**
1980	950	32	30,400
1979	1,010	30	30,300
1978	900	24	21,600
1977	770	31	23,870

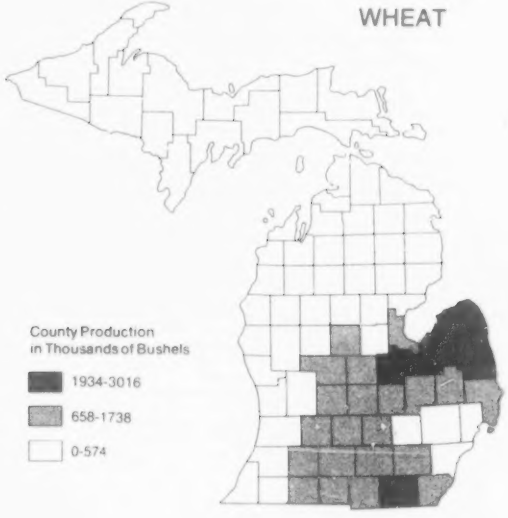
Soybean Stocks by Quarter

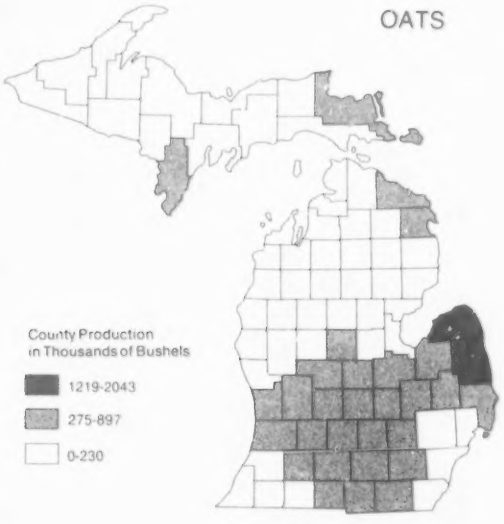
YEAR	January 1		April 1		June 1		September 1	
	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
	1,000 Bushels							
1982	**11,640**	**6,718**	**8,148**	**4,514**	—	—	—	—
1981	9,120	9,406	7,600	6,567	5,472	4,499	1,216	1,465
1980	15,150	9,481	7,272	6,885	5,454	5,223	606	3,111
1979	10,800	6,055	5,184	3,701	2,160	1,710	432	455
1978	7,400	4,881	4,774	4,394	1,910	2,809	597	430
1977	3,475	1,604	2,201	1,448	405	510	232	240

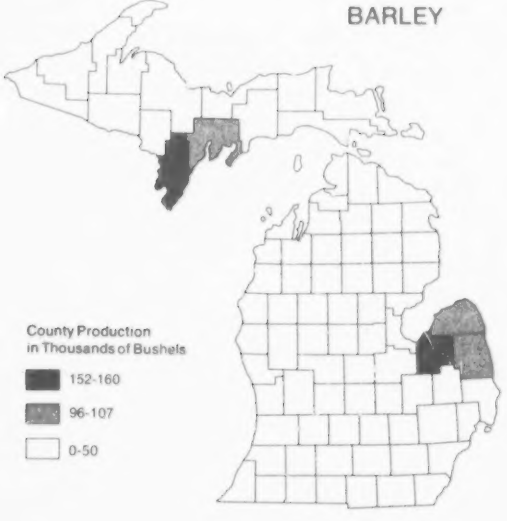
Wheat, Oats, Barley and Rye

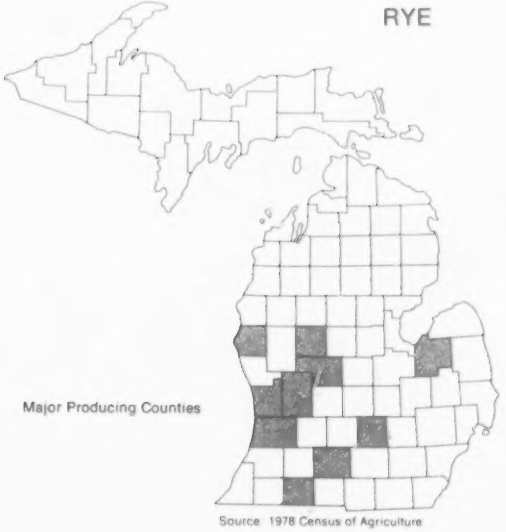
Production of the 1981 wheat crop was the largest since 1953. Record yields coupled with a 4 percent increase in acreage pushed production to its high level. Quality of this year's crop was excellent as a result of adequate moisture and favorable growing conditions. Conditions were generally good for the 1981 oat crop, and production surpassed the previous year by 5 percent. A record yield of 62 bushels per acre was also set. Rye and barley were up in production. Production increases for rye are contributed to the 4 bushel increase in yield. Barley yield was down but more acres for harvest are responsible for its production increase.

Most small grains in Michigan are sold to be used to manufacture food or as livestock feed. Bakeries turn soft white winter wheat into cookies, cakes, and breakfast cereals. Barley is used by breweries for making beer. Rye is planted primarily as a winter cover crop, while oats are grown mostly for livestock feed.









Source: 1978 Census of Agriculture

Wheat Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**830**	**50**	**41,500**
1980	800	44	35,200
1979	735	43	31,605
1978	410	40	16,400
1977	825	40	33,000

Barley Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**26**	**52**	**1,352**
1980	21	53	1,113
1979	20	47	940
1978	22	47	1,034
1977	22	52	1,144

Oat Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**340**	**62**	**21,080**
1980	335	60	20,100
1979	310	61	18,910
1978	410	57	23,370
1977	340	55	18,700

Rye Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Bushels*	*1,000 Bushels*
1981	**19**	**28**	**532**
1980	21	24	504
1979	25	25	625
1978	25	24	600
1977	19	24	456

Small Grain Stocks by Quarter[1]

CROP	Crop Year	October 1		January 1		April 1		June 1	
		On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm	On Farm	Off Farm
		1,000 Bushels							
WHEAT	**1981**	**5,781**	**15,245**	**4,565**	**12,802**	**2,905**	**9,585**	**2,490**	**6,652**
	1980	8,448	22,701	7,392	15,608	2,816	12,659	2,112	7,499
	1979	6,005	14,137	4,741	11,855	2,212	6,026	1,264	3,616
	1978	2,624	14,878	1,968	11,699	820	8,645	656	7,284
	1977	8,580	24,171	6,930	19,165	2,640	14,942	1,650	10,778
OATS	**1981**	**12,437**	**3,197**	**10,962**	**1,846**	**5,270**	**1,452**	**2,108**	**798**
	1980	13,467	3,535	11,457	1,982	5,025	1,341	2,814	906
	1979	13,237	4,903	11,346	2,497	6,619	2,349	3,215	873
	1978	15,658	4,907	12,854	3,525	7,946	2,461	5,375	1,550
	1977	11,968	3,340	9,724	2,440	7,480	1,954	4,675	1,545
BARLEY	**1981**	**690**	[2]	**541**	[2]	**270**	[2]	**176**	—
	1980	668	[2]	501	[2]	312	[2]	167	[2]
	1979	564	[2]	423	[2]	263	[2]	169	[2]
	1978	569	[2]	414	[2]	259	[2]	145	[2]
	1977	629	[2]	458	[2]	286	[2]	172	[2]
RYE	**1981**	**247**	**10**	**106**	[2]	**80**	[2]	**27**	[2]
	1980	302	25	176	6	101	5	50	3
	1979	344	74	231	28	188	20	94	9
	1978	288	110	120	51	90	25	60	19
	1977	228	52	91	17	68	14	50	15

[1] Includes interior mills, elevators and warehouses, cereal food processing plants, census merchant mills, terminal and C.C.C. bins.
[2] Not published to avoid disclosing individual operations.

Sugarbeets

Sugarbeet planting started about two weeks ahead of normal. However, wet weather caused delays in planting and germination and some acreage had to be replanted. Yield prospects were good as soil moisture was adequate during most of the growing season. The 20.5 ton per acre yield was up 1 ton from the previous year. Wet fields delayed the start of the harvest until mid-October. Harvest was nearing completion by early November. Growers harvested a record crop of over 2 million tons, 6 percent more than the previous record set in 1970. In Michigan, sugar beet production is located mainly in the Thumb area. Beets are grown primarily for their sugar content, however, the pulp by-product makes a valuable livestock feed when mixed with other feed ingredients.

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1981	**99.0**	**20.5**	**2,030**
1980	97.0	19.5	1,892
1979	88.0	17.6	1,550
1978	91.5	19.3	1,770
1977	85.5	21.0	1,796

Spearmint

Michigan's spearmint crop totaled 118,000 pounds of oil and a record high value of nearly 2 million dollars. The dry weather in early July did not hurt the crop and yields averaged 31 pounds. Harvested acreage in recent years has been fairly steady at about 3,800 acres.

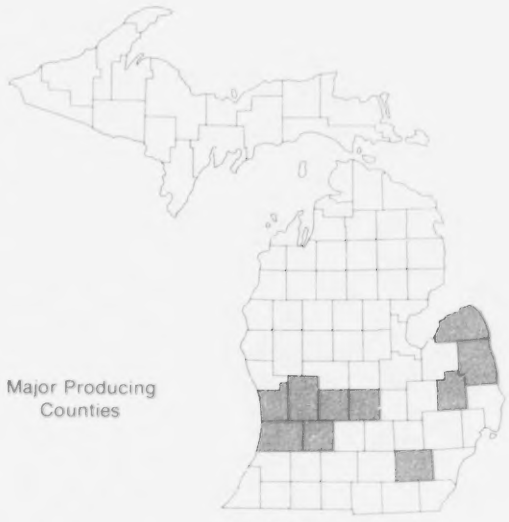
Most Michigan spearmint goes to processors which produce oil to be further refined for use in such products as gum, medicine, soap, and toothpaste. The major producing area is in the Central Lower Michigan. Michigan ranks sixth nationwide, in spearmint production.

Acreage, Production, Value

YEAR	Acres Harvested	Production — Oil		Price Received	Value of Production
		Per Acre	Total		
		Pounds	*1,000 Pounds*	*Dollars per Pound*	*1,000 Dollars*
1981	**3,800**	**31**	**118**	**15.50**	**1,829**
1980	3,700	29	107	13.70	1,466
1979	3,800	31	118	13.00	1,534
1978	3,600	29	104	12.60	1,310
1977	3,300	24	79	16.50	1,304

Hay

Hay was Michigan's second leading field crop in value of production for the 1981 season. Most hay is utilized by livestock producers as part of their winter feeding operations, while other farmers sell it as a cash crop. Abundant rainfall in southern and eastern regions boosted yields high enough to surpass last year's record yield. Average yield from all cuttings (usually three per season) was 3.07 tons per acre. Acres harvested was down 40,000 acres but the increase in yield brought total production to nearly 3.9 million tons, 1 percent above 1980. Hay is grown in all areas of the state with alfalfa being the more common variety.



Source: 1978 Census of Agriculture

Production by Kinds

CROP YEAR	Total	Alfalfa and Alfalfa Mixtures		All Other Kinds	
		Acres	Production	Acres	Production
	1,000 Tons	*1,000*	*1,000 Tons*	*1,000*	*1,000 Tons*
1981	**3,894**	**1,000**	**3,300**	**270**	**594**
1980	3,844	1,020	3,264	290	580
1979	3,833	1,040	3,224	290	609
1978	3,857	1,140	3,306	290	551
1977	2,855	1,000	2,450	300	405

Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Tons*	*1,000 Tons*
1981	**1,270**	**3.07**	**3,894**
1980	1,310	2.93	3,844
1979	1,330	2.88	3,833
1978	1,430	2.70	3,857
1977	1,300	2.20	2,855

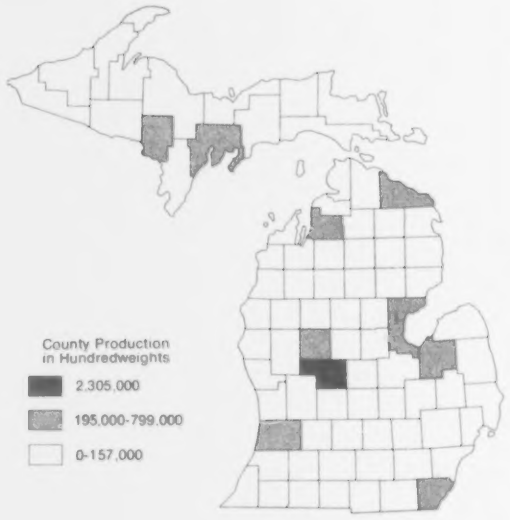
Hay Stocks on Farms

YEAR	January 1	May 1
	1,000 Tons	
1982	**2,220**	**506**
1981	2,306	769
1980	2,491	1,150
1979	2,276	1,003
1978	1,456	514

Potatoes

Potatoes are an important cash crop for Michigan farmers. Growers are expected to earn about $56 million from sales of the 1981 crop. Bay and Montcalm Counties are the major producing regions, but potatoes are grown throughout the state.

Annual production is divided into summer and fall seasons, with the fall season accounting for 83 percent of 1981 production. The fall crop declined 5 percent from 1980 as a result of a drop in harvested acreage. Heavy rains during September caused flooding in Southeast Michigan and reduced potential yields. The summer crop grown primarily in the "Bay-Thumb" area declined 10 percent as a result of lower yields.



Total Acreage, Yield, Production

YEAR	Acres Harvested	Yield per Acre	Production
	1,000	*Cwt.*	*1,000 Cwt.*
1981	**38.3**	**222**	**8,503**
1980	39.8	227	9,022
1979	40.6	235	9,548
1978	42.3	235	9,953
1977	39.8	257	10,243

Production and Disposition

SEASON	Year	Production	Total Used for Seed[1]	Used on Farm Where Grown		Sold
				For Seed, Feed and Household Use	Shrink & Loss	
			1,000 Cwt.			
SUMMER	**1981**	**1,453**	—	—	—	—
	1980	1,619	187	87	49	1,483
	1979	1,548	179	60	38	1,450
	1978	1,453	178	75	73	1,305
	1977	1,443	164	78	144	1,221
FALL	**1981**	**7,050**	—	—	—	—
	1980	7,403	608	175	725	6,503
	1979	8,000	618	215	752	7,033
	1978	8,500	614	193	913	7,394
	1977	8,800	651	229	1,188	7,383
TOTAL	**1981**	**8,503**	—	—	—	—
	1980	9,022	795	262	774	7,986
	1979	9,548	797	275	790	8,483
	1978	9,953	792	268	986	8,699
	1977	10,243	815	307	1,332	8,604

[1] Includes seed purchased and seed used on farms where grown.

Fall Potato Stocks

CROP YEAR	December 1	January 1	February 1	March 1	April 1	May 1
			1,000 Cwt.			
1981	**5,000**	**3,900**	**2,600**	**1,800**	**1,200**	**700**
1980	4,500	3,300	2,200	1,400	800	400
1979	5,400	4,400	3,400	2,400	1,500	700
1978	5,900	5,000	4,000	3,000	2,100	1,200
1977	5,500	4,400	3,600	2,400	1,500	

[1] May 1 stocks not estimated prior to 1978 crop year.

FRUITS

General Information

Michigan is one of the major fruit producing states in the nation. This is largely due to the moderating influence that Lake Michigan has on the weather. The fruit industry is concentrated along the western coast of the Lower Peninsula where the "lake effect" is strongest. Cold air passing over the unfrozen lake in the winter is warmed while hot air passing over in the summer is cooled. The moderate climate that results is ideal for fruit production.

Production of Michigan's eight major fruit crops during 1981 fell 24 percent to just over 1 billion pounds. A warm March followed by freezing temperatures in late April, especially in the Northwest and West Central producing regions, were important factors behind the reduced harvest for five out of the eight major fruit crops in the state. A strengthening in prices for many fruits, however, pushed the total value of Michigan's fruit production 15 percent higher than last season to nearly $158 million.

There was much variability in the production success between fruits as well as within fruits in 1981. Blueberries, for instance, had the largest crop on record while tart cherries had the smallest output in 14 years. Some individual orchards were froze out for certain fruits while growers in other areas had full crops of the same fruits. The weather pattern behind this unusual variability in production was evident from the Great Lakes region to the Eastern States.

Fruit Total Acreage, Production and Value[1]

YEAR	Acres of Bearing Age	Production		Value of Utilized Production	
		Total	Utilized	Average	Total
	1,000	*Million Pounds*		*Dollars/Cwt.*	*1,000 Dollars*
1981	**116.2**	**1,017.0**	**1,017.0**	**15.51**	**157,688**
1980	115.3	1,333.0	1,332.0	10.30	137,252
1979	114.8	1,068.0	1,068.0	14.42	154,028
1978	118.9	1,413.0	1,383.0	13.70	189,442
1977	128.4	958.8	958.8	13.65	130,873

[1] Includes apples, peaches, tart cherries, sweet cherries, blueberries, pears, prunes, plums and grapes.

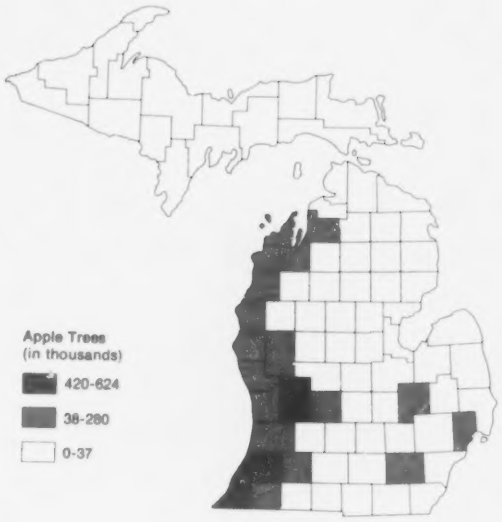
Trees, Acres, Production and Value

FRUIT	YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
		Number	Acres	Total	Utilized		
		1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
APPLES[1]	**1981**	**2,750**	**41.0**	**640**	**640**	**8.80**	**56,320**
	1980	2,750	41.0	900	900	6.20	55,800
	1979	2,700	40.5	680	680	7.80	53,040
	1978	2,800	43.3	920	890	7.60	67,640
	1977	2,900	46.1	570	570	7.90	45,030
TART CHERRIES	**1981**	**2,800**	**30.0**	**88**	**88**	**46.40**	**40,832**
	1980[2]	2,700	29.4	150	149	20.40	30,396
	1979	2,650	28.2	100	100	48.50	48,500
	1978	2,600	27.7	128	128	44.40	56,832
	1977	2,750	29.3	162	162	29.50	47,790
SWEET CHERRIES	**1981**	**300**	**9.3**	**46**	**46**	**18.75**	**8,625**
	1980	800	9.3	58	58	17.70	10,266
	1979	830	9.6	54	54	20.35	10,989
	1978	850	10.2	75	75	22.90	17,175
	1977	900	10.9	50	50	20.45	10,225
BLUEBERRIES[3]	**1981**	[4]	**9.8**	**52.0**	**52.0**	**51.10**	**26,572**
	1980	[4]	9.4	41.0	41.0	40.00	16,400
	1979	[4]	9.5	36.0	36.0	44.90	16,164
	1978	[4]	9.0	27.0	27.0	66.00	17,820
	1977	[4]	8.0	11.8	11.8	71.00	8,378
PEACHES	**1981**	**500**	**5.0**	**35**	**35**	**19.20**	**6,720**
	1980	500	5.0	40	40	19.20	7,680
	1979	600	5.8	35	35	19.40	6,790
	1978	700	6.9	60	60	16.00	9,600
	1977	1,000	9.9	55	55	15.60	8,580
				Tons		*Dollars per Ton*	
GRAPES[5]	**1981**	**7,000**	**14**	**53,000**	**53,000**	**271**	**14,363**
	1980	7,000	14	49,500	49,500	240	11,880
	1979	7,000	14	58,500	58,500	237	13,865
	1978	7,000	14	67,500	67,500	223	15,053
	1977	7,000	14	33,000	33,000	216	7,128
PEARS	**1981**	**260**	**2.7**	**9,000**	**9,000**	**224**	**2,016**
	1980	270	2.8	10,000	10,000	223	2,230
	1979	270	2.8	9,000	9,000	198	1,782
	1978	290	3.0	10,000	10,000	201	2,010
	1977	450	4.8	8,000	8,000	221	1,768
PRUNES AND PLUMS	**1981**	**410**	**4.4**	**16,000**	**16,000**	**140**	**2,240**
	1980	410	4.4	12,500	12,500	208	2,600
	1979	410	4.4	14,000	14,000	207	2,898
	1978	450	4.8	24,000	24,000	138	3,312
	1977	500	5.4	14,000	14,000	141	1,974

[1] Commercial.
[2] 25 million pounds storm loss not included in final production.
[3] Bushes of bearing age.
[4] Not published.
[5] Vines of bearing age.

Apples

Compared to the near record apple crop in 1980, Michigan's 1981 apple harvest was only moderately sized. Production declined 29 percent from the previous year. Spring freezes and poor pollinating weather were the major factors behind the reduced pickings. Abundant moisture supplies and a later than normal peak harvest allowed for good apple sizing. Michigan continues to lead the nation in the production of Jonathans and Northern Spies. New York and Washington remain the only states growing more apples than Michigan.



Trees, Acres, Production and Value[1]

YEAR	Trees of Bearing Age		Value of Production
	Number	Acres	
	1,000	*1,000*	*1,000 Dollars*
1981	**2,750**	**41.0**	**56,320**
1980	2,750	41.0	55,800
1979	2,700	40.5	53,040
1978	2,800	43.3	67,640
1977	2,900	46.1	45,030

[1] Commercial.

Disposition and Utilization

YEAR	Total Production	Fresh Market		Processing		Total Utilization	
		Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1981	**640**	[1]	[1]	[1]	[1]	**640**	**8.80**
1980	900	325	9.50	575	4.25	900	6.20
1979	680	235	11.50	445	5.90	680	7.80
1978	920	350	11.00	540	5.40	890	7.60
1977	570	225	11.00	345	5.85	570	7.90

[1] Not available at publication time.

Production by Variety

VARIETY	**1981**	1980	1979	1978	1977
			Million Pounds		
Jonathan	**155**	210	176	224	151
Cortland	**11**	16	12	19	12
Red Delicious	**120**	185	109	190	74
Golden Delicious	**49**	55	39	46	35
McIntosh	**90**	150	105	161	108
Northern Spy	**65**	80	93	79	77
R. I. Greening	**10**	16	13	17	11
Rome Beauty	**31**	45	29	42	26
Stayman Winesap	**21**	26	20	26	13
Idareds	**36**	42	33	[1]	[1]
Paula Red	**12**	15	12	[1]	[1]
Other	**40**	60	39	116	63
All Varieties	**640**	900	680	920	570

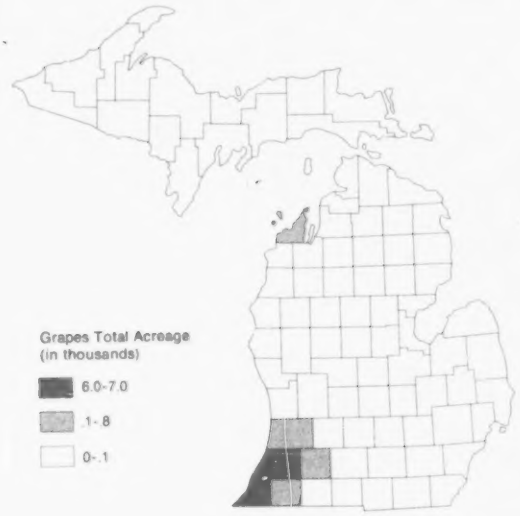
[1] Not estimated prior to 1979.

Processing Apple Sales and Prices Based on Utilization

YEAR	Canned		Frozen		Juice and Cider		Other	
	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound	Quantity	Price per Pound
	Million Pounds	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*	*Million Pounds*	*Cents*
1980	**119**	**5.10**	**80**	**5.30**	**331**	**3.60**	**45**	**4.60**
1979	163	6.70	57	6.50	218	5.10	7	6.10
1978	148	6.20	122	6.40	237	4.50	33	4.80
1977	112	6.80	76	7.10	143	4.60	—	—
1976	54	8.70	66	8.70	136	4.50	9	4.20

Grapes

An averaged sized grape crop was produced in Michigan in 1981. Production was up 7 percent over the previous year. There was minimal crop damage due to spring frosts. Mildew problems were confined to a small number of vineyards. Heavy rains in late September and early October mainly bypassed the major grape growing areas. Cloudy days and light showers before and during harvest, however, caused some cracking and kept sugar content below its maximum potential. Michigan was the fifth largest producer of grapes nationally in 1981. The Concord variety continues to account for 90 percent of Michigan's production.



Vines, Acres, Production and Value

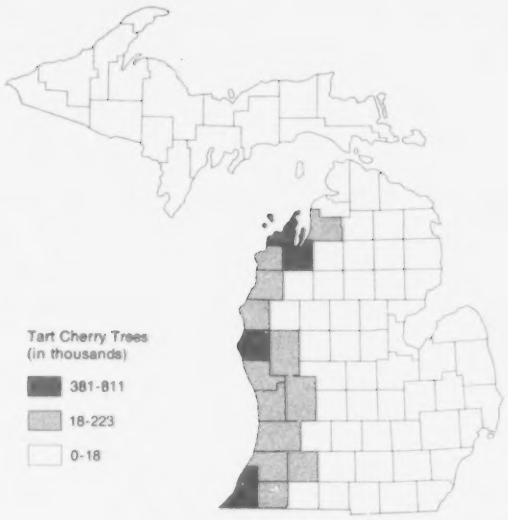
YEAR	Vines of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Tons*		*Dollars per Ton*	*1,000 Dollars*
1981	**7,000**	**14**	**53,000**	**53,000**	**271**	**14,363**
1980	7,000	14	49,500	49,500	240	11,880
1979	7,000	14	58,500	58,500	237	13,865
1978	7,000	14	67,500	67,500	223	15,053
1977	7,000	14	33,000	33,000	216	7,128

Disposition and Utilization

YEAR	Total Production	Sold	Utilization of Sales		
			Fresh Market	Wine	Other
			Tons		
1981	**53,000**	**53,000**	**1,600**	**2,800**	**48,600**
1980	49,500	49,500	1,700	3,300	44,500
1979	58,500	58,500	2,000	1,900	54,600
1978	67,500	67,500	2,100	4,200	61,200
1977	33,000	33,000	1,600	1,900	29,500

Tart Cherries

After a warm March, freezing temperatures during April resulted in severe damage to the state's tart cherry blossom buds. This consequently led to below average yields, especially in West Central and Northwestern Michigan. Production was off 41 percent from 1980. This was the state's lowest tart cherry output in 14 years. Michigan retained its status as the number one producer accounting for about two-thirds of the nation's tart cherry output in 1981. U.S. production was at the lowest level since 1945. About half the states trees and annual production is located in the Traverse City area of Northern Michigan.

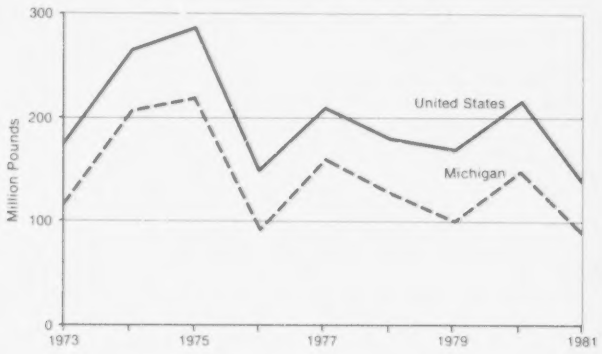


Production by Region

REGION	1981	1980[1]	1979	1978	1977
	Million Pounds				
Northwest	35	72	53	85	83
West Central	**24**	37	29	26	46
Southwest	**28**	39	17	15	31
Other	**1**	2	1	2	2
State Totals	**88**	150	100	128	162

[1] 25 million pounds storm loss not included in total production.

Total Production of Tart Cherries



Trees, Acres, Production and Value

YEAR	Trees of Bearing Age		Production		Price Received	Value of Production
	Number	Acres	Total	Utilized		
	1,000	*1,000*	*Million Pounds*		*Dollars per Cwt.*	*1,000 Dollars*
1981	**2,800**	**30.0**	**88**	**88**	**46.40**	**40,832**
1980[1]	2,700	29.4	150	149	20.40	30,396
1979	2,650	28.2	100	100	48.50	48,500
1978	2,600	27.7	128	128	44.40	56,832
1977	2,750	29.3	162	162	29.50	47,790

[1] 25 million pounds storm loss not included in total production.

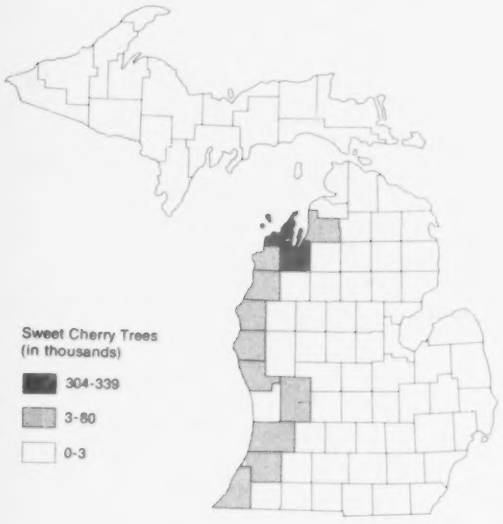
Disposition and Utilization

YEAR	Total Production	Utilized Production	Utilization of Sales			
			Fresh Market	Processed		
				Canned	Frozen	Other
	Million Pounds					
1981	**88**	**88**	**2**	**27**	**58**	**1**
1980[1]	150	149	4	52	91	2
1979	100	100	2	29	68	1
1978	128	128	3	34	90	1
1977	162	162	4	46	110	2

[1] 25 million pounds storm loss not included in total production.

Sweet Cherries

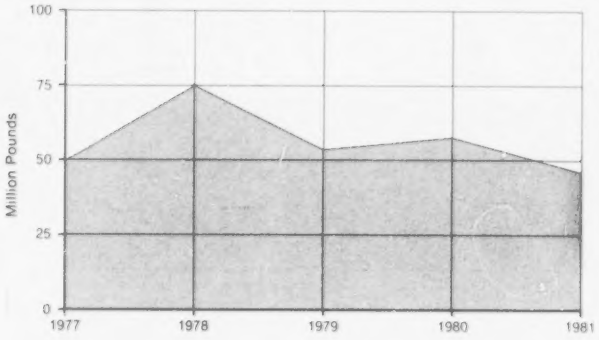
Michigan's sweet cherry growers harvested the smallest crop in 5 years in 1981. April freeze damage followed by some poor pollinating weather contributed to the 21 percent decline in production. Still, Michigan retained its position as the fourth largest producer of sweet cherries in the nation.



Production and Utilization

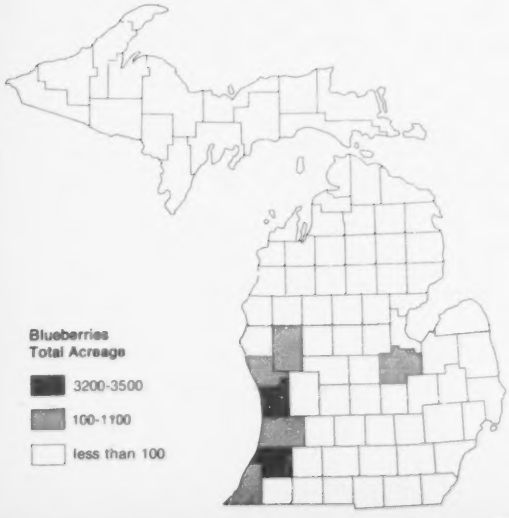
YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Million Pounds		
1981	**46**	**3**	**43**
1980	58	4	54
1979	54	3	51
1978	75	4	71
1977	50	3	47

Sweet Cherry Production



Blueberries

Michigan's blueberry growers established a new production record for the third straight year. At 52 million pounds, the crop was 27 percent larger in 1981 than 1980's record crop. This continued the rapid climb in production since the 1977 freeze out. This new record makes Michigan by far the dominant producer of blueberries in the nation.



Acreage, Yield, Production

REGION BY YEAR	Acres Harvested	Yield	Harvested Production
		Pounds	*1,000 Pounds*
Southwest[1]			
1981	**5,800**	**5,172**	**30,000**
1980	5,500	3,909	21,500
1979	5,400	4,259	23,000
1978	5,000	3,000	15,000
1977	4,500	1,511	6,800
West Central[2]			
1981	**3,700**	**5,676**	**21,000**
1980	3,600	5,000	18,000
1979	3,700	3,243	12,000
1978	3,600	3,056	11,000
1977	3,200	1,406	4,500
Eastern[3]			
1981	**300**	**3,333**	**1,000**
1980	300	5,000	1,500
1979	400	2,500	1,000
1978	400	2,500	1,000
1977	300	1,667	500
State Total			
1981	**9,800**	**5,310**	**52,000**
1980	9,400	4,360	41,000
1979	9,500	3,790	36,000
1978	9,000	3,000	27,000
1977	8,000	1,475	11,800

[1] Mainly Allegan, Berrien and Van Buren Counties.
[2] Mainly Muskegon and Ottawa Counties.
[3] Mainly Genesee, Lapeer and Saginaw Counties.

Peaches

Michigan peach growers picked a crop of good color and quality in 1981. However, overall production was slightly below 1980. Adequate moisture allowed for good sizing. Spring freeze damage was evident in some orchards. Michigan was the seventh leading producer of peaches nationally in 1981. Most of the state's crop is marketed through fresh channels. The continuing decline in tree numbers has reduced Michigan's production potential for peaches.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Million Pounds		
1981	**35**	[1]	[1]
1980	40	[1]	[1]
1979	35	[1]	[1]
1978	60	51	9
1977	55	47	8

[1] Excluded to avoid disclosing individual operations.

Prunes and Plums

One of the finest prune-plum crops in recent years was produced in Michigan in 1981. Production jumped 28 percent above 1980's freeze damaged crop. Summer rains were timely, aiding fruit sizing. Quality was excellent. Only California and Oregon produced more prune-plums in 1981. Michigan's acreage has been shifting from Southwest Michigan to the Grand Traverse-Leelanau area in Northwest Michigan. Stanley is the leading variety accounting for 85 percent of Michigan's trees.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Tons		
1981	**16,000**	**7,400**	**8,600**
1980	12,500	5,600	6,900
1979	14,000	7,400	6,600
1978	24,000	9,400	14,600
1977	14,000	6,600	7,400

Pears

There was much variability in Michigan's pear crop in 1981, as some orchards were freeze damaged while others produced full crops. A continuation in the downward trend of tree numbers gave impetus to a slight production decrease versus 1980's harvest. Plentiful moisture supplies made for a good quality crop with good sizing. Most of the orchards are located in the western part of the state. Bartletts are the dominant variety.

Production and Utilization

YEAR	Total Production	Utilized Production	
		Fresh	Processed
	Tons		
1981	**9,000**	[1]	[1]
1980	10,000	[1]	[1]
1979	9,000	[1]	[1]
1978	10,000	[1]	[1]
1977	8,000	[1]	[1]

[1] Excluded to avoid disclosing individual operations.

Vegetables

Michigan vegetable growers produced over 13 million hundred weight of fresh market and processing vegetables in 1981. This represents an increase of 11 percent from the 1980 crop. Favorable weather during the growing season improved yields of most vegetable crops and more than offset a decline in harvested acreage. Significantly higher yields were noted in onions, processing tomatoes, and both fresh and processing cucumbers.

This year's vegetables are valued close to 135 million dollars, up 9 percent from 1980. Onions, carrots, celery, tomatoes, asparagus and cucumbers, including pickles, contributed the majority of vegetable income to Michigan growers. Michigan retains its position as the nation's number one producer of cucumbers for pickles.

Total Vegetable Acreage, Production and Value

YEAR	Acres Planted	Acres Harvested	Production	Value
			1,000 Cwt.	*1,000 Dollars*
1981	**109,050**	**101,850**	**13,244**	**134,641**
1980	111,400	105,500	11,970	123,162
1979	120,500	116,750	13,708	118,835
1978	123,400	117,160	13,263	116,602
1977	120,670	115,580	12,264	95,181

Dual Purpose Vegetable Disposition and Value[1]

CROP	Year	Fresh Market			Processing		
		Production	Price Received	Value of Production	Production	Price Received	Value of Production
		1,000 Cwt.	*Dollars per Cwt.*	*1,000 Dollars*	*Tons*	*Dollars per Ton*	*1,000 Dollars*
Asparagus	**1981**	**53**	**72.00**	**3,816**	**5,900**	**1,165.00**	**6,874**
	1980	70	65.00	4,550	8,220	908.00	7,464
	1979	52	78.40	4,077	10,080	1,137.00	11,461
	1978	44	60.00	2,640	10,500	1,120.00	11,760
	1977	32	51.00	1,632	8,850	868.00	7,682
Carrots	**1981**	**830**	**13.50**	**11,205**	**24,310**	**49.50**	**1,203**
	1980	880	16.30	14,371	22,980	58.00	1,333
	1979	1,129	10.70	12,104	29,200	44.50	1,299
	1978	1,088	13.20	14,341	26,300	49.10	1,291
	1977	1,041	11.60	12,126	13,000	51.30	667
Strawberries	**1981**	**137**	**49.20**	**6,740**	**1,950**	**798.00**	**1,556**
	1980	137	51.10	7,001	1,950	696.00	1,357
	1979	143	56.10	8,022	2,650	762.00	2,019
	1978	140	42.00	5,880	3,500	598.00	2,093
	1977	140	33.00	4,620	2,800	593.00	1,660

[1] Disposition data not publishable for Cauliflower, Celery and Peppers.

Dual Purpose Vegetable Acreage Production and Value

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Cwt.	*1,000 Cwt.*	*Dollars per Cwt.*	*1,000 Dollars*
Asparagus	**1981**	**20,000[1]**	**19,000**	**9**	**171**	**62.50**	**10,690**
	1980	20,000[1]	19,500	12	234	51.30	12,014
	1979	20,000[1]	19,500	13	254	61.20	15,538
	1978	20,000[1]	19,500	13	254	56.70	14,400
	1977	19,500[1]	19,000	11	209	44.60	9,314
Carrots	**1981**	**7,000**	**5,600**	**235**	**1,316**	**9.43**	**12,408**
	1980	6,800	5,600	239	1,340	11.70	15,704
	1979	6,700	6,600	260	1,713	7.82	13,403
	1978	6,500	6,100	265	1,614	9.69	15,632
	1977	6,300	5,600	232	1,301	9.83	12,793
Cauliflower	**1981**	**1,200**	**1,000**	**62**	**62**	**37.90**	**2,350**
	1980	1,200	1,000	50	50	36.50	1,824
	1979	1,200	1,100	70	77	27.70	2,132
	1978	1,200	1,100	50	55	28.50	1,567
	1977	1,100	1,000	50	50	16.60	831
Celery	**1981**	**3,400**	**3,200**	**450**	**1,440**	**10.90**	**15,675**
	1980	3,200	3,100	447	1,387	9.29	12,890
	1979	2,700	2,600	443	1,153	9.52	10,982
	1978	2,600	2,300	407	936	14.10	13,197
	1977	2,500	2,400	448	1,074	8.24	8,854
Peppers	**1981**	**1,900**	**1,800**	**75**	**135**	**24.70**	**3,328**
	1980	1,800	1,700	74	126	25.50	3,207
	1979	2,000	1,900	77	146	24.20	3,536
	1978	2,000	1,900	78	148	18.60	2,759
	1977	1,900	1,800	75	135	16.00	2,163
Strawberries	**1981**	**2,800**	**2,700**	**65**	**176**	**47.10**	**8,296**
	1980	2,800	2,700	65	176	47.50	8,358
	1979	2,900	2,800	70	196	51.20	10,041
	1978	2,900	2,800	75	210	38.00	7,973
	1977	2,900	2,800	70	196	32.00	6,280

[1] Bearing acres only.

Processing Vegetable Acreage, Production, Value[1]

CROP	Year	Acres		Production		Price Received	Value of Production
		Planted	Harvested	Per Acre	Total		
				Tons		*Dollars per Ton*	*1,000 Dollars*
Snap Beans	**1981**	**14,600**	**14,300**	**2.53**	**36,180**	**160.00**	**5,789**
	1980	14,600	13,700	2.80	38,360	156.00	5,984
	1979	17,600	17,300	2.08	35,980	162.00	5,829
	1978	18,000	16,400	2.10	34,450	148.00	5,099
	1977	17,500	16,800	2.46	41,300	125.00	5,163
Cucumbers, for Pickles	**1981**	**16,300**	**15,500**	**6.50**	**100,750**	**135.00**	**13,601**
	1980	19,000	18,900	5.56	105,080	125.00	13,135
	1979	26,500	25,500	4.62	117,810	132.00	15,551
	1978	27,500	26,500	4.75	126,000	120.00	15,120
	1977	25,200	24,500	4.65	114,000	109.00	12,426
Tomatoes	**1981**	**6,400**	**6,200**	**19.08**	**118,300**	**86.00**	**10,174**
	1980	6,100	6,000	12.28	73,680	72.90	5,371
	1979	5,700	5,600	18.11	101,420	68.30	6,927
	1978	4,600	4,500	18.04	81,200	67.30	5,465
	1977	4,200	4,100	15.49	63,500	65.80	4,178

[1] Processing vegetables estimated but not published to avoide disclosure of individual operations include: Beets, Cabbage for Kraut, Sweet Corn and Green Peas.
[2] Includes historic revisions for 1976-78.

Fresh Market Vegetable Acreage, Production, Value

CROP	Year	Acres		Production		Price Received	Value of Production[1]
		Planted	Harvested	Per Acre	Total		
				Cwt.	1,000 Cwt.	Dollars per Cwt.	1,000 Dollars
Beans, Snap	**1981**	**3,000**	**2,600**	**32**	**83**	**29.40**	**2,440**
	1980	3,100	2,900	32	93	26.20	2,437
	1979	3,100	2,900	28	81	25.60	2,074
	1978	3,000	2,600	30	78	23.10	1,802
	1977	3,000	2,700	34	92	20.20	1,858
Cabbage	**1981**	**3,200**	**2,900**	**160**	**464**	**6.96**	**3,229**
	1980	3,300	3,000	153	460	9.35	4,300
	1979	3,300	3,000	163	489	6.56	3,207
	1978	3,200	3,000	177	532	8.95	4,763
	1977	3,600	3,200	164	526	6.28	3,302
Cantaloups	**1981**	**1,700**	**1,600**	**115**	**184**	**16.80**	**3,091**
	1980	1,700	1,500	120	180	19.50	3,510
	1979	1,700	1,600	115	184	16.20	2,981
	1978	1,700	1,600	110	176	12.20	2,147
	1977	1,900	1,700	105	179	11.10	1,987
Corn, Sweet	**1981**	**12,000**	**11,500**	**61**	**702**	**9.84**	**6,908**
	1980	11,700	11,500	67	771	8.92	6,877
	1979	11,700	11,500	58	667	8.28	5,523
	1978	12,000	11,700	60	702	9.28	6,515
	1977	12,500	12,300	63	775	7.07	5,479
Cucumbers	**1981**	**2,000**	**1,900**	**125**	**238**	**13.80**	**3,284**
	1980	2,000	1,900	110	209	11.30	2,362
	1979	2,000	1,900	115	219	14.80	3,241
	1978	2,200	2,100	105	221	12.10	2,674
	1977	2,200	2,100	120	252	9.28	2,339
Lettuce	**1981**	**1,400**	**1,200**	**215**	**258**	**28.00**	**7,224**
	1980	1,600	1,200	210	252	19.30	4,864
	1979	1,500	1,400	200	280	22.00	6,160
	1978	1,500	1,300	220	286	13.70	3,918
	1977	1,500	1,300	200	260	9.60	2,496
Onions	**1981**	**7,500**	**7,300**	**335**	**2,446**	**11.70**	**23,810**
	1980	7,500	7,200	250	1,800	13.20	18,480
	1979	8,000	7,900	340	2,686	4.69	10,506
	1978	8,200	7,900	340	2,686	5.77	12,983
	1977	8,100	7,700	295	2,272	6.30	11,466
Tomatoes	**1981**	**3,600**	**3,400**	**115**	**391**	**24.50**	**9,580**
	1980	3,700	3,400	110	374	24.50	9,163
	1979	3,600	3,400	120	408	25.10	10,241
	1978	3,900	3,600	105	378	18.70	7,069
	1977	4,100	3,900	100	390	22.90	8,931

[1] For onions — Value of sales.

Onion Production and Stocks

YEAR	Total Production	Sales			Shrinkage		Total Stocks January 1[1]	Stocks as Percent of Total Production
		Total	Before January 1	After January 1	Before January 1	After January 1		
		1,000 Cwt.						Percent
1981	**2,446**	**2,090**	**1,240**	**850**	**256**	**100**	**950**	**38.8**
1980	1,800	1,400	870	530	280	120	650	36.1
1979	2,686	2,240	1,290	950	271	175	1,125	41.9
1978	2,686	2,250	1,240	1,010	296	140	1,150	42.8
1977	2,272	1,820	1,150	670	347	105	775	34.1

[1] Stocks following year.

FLORICULTURE

Michigan commercial floriculture growers, those having $10,000 or more of gross sales from selected cut flowers, potted plants, bedding plants and foliage plants, reported sales totaling $54.5 million for 1981. This was up 11 percent from the $49 million reported in 1980, but still sufficient to only maintain Michigan's fifth place national rating behind California, Florida, Ohio, and Texas.

The leading Michigan revenue producers continue to be flowering and vegetable bedding plants, accounting for almost 50 percent of the total Michigan value of sales at wholesale in 1981.

In general, Michigan's floriculture picture returned to an up note in 1981, as 10 of the 13 crops surveyed showed production gains over 1980 levels. Only snapdragons, potted chrysanthemums and poinsettias showed declines from 1980 levels.

Area of Production and Average Value

PLANT	Production Area			Average Value of Production Area[1]		
	1981	1980	1979	**1981**	1980	1979
	1,000 Sq. Ft.			*Dollars per Sq. Ft.*		
FOLIAGE PLANTS:						
All	**1,245**	1,296	1,032	**4.00**	3.53	4.59
BEDDING PLANTS:						
Flowering	**7,603**	7,349	6,940	**2.68**	2.40	1.98
Vegetable	**2,600**	2,577	2,593	**2.38**	2.21	2.08
FLOWERING POT PLANTS:						
Chrysanthemums	**1,185**	1,200	960	**3.38**	3.32	3.34
Geraniums	**2,050**	2,068	1,916	**2.61**	2.28	2.26
Hydrangeas	**90**	84	80	**2.83**	2.29	2.45
Lilies	**480**	476	430	**3.49**	3.13	3.24
Poinsettias	**2,108**	2,130	2,012	**1.94**	1.90	1.92
CUT FLOWERS:						
Chrysanthemums						
Standard	**145**	136	168	**1.96**	1.93	1.93
Pompon	**220**	216	225	**2.42**	2.17	1.96
Roses						
Hybrid Tea	**540**	546	504	**6.80**	5.86	5.18
Sweetheart	**166**	166	146	**8.33**	7.50	5.82
Snapdragons	**155**	155	120	**1.34**	1.24	1.31
	Acres			*Dollars per Acre*		
Gladioli	**440**	435	488	**3,323**	2,903	1,770

[1] Based on Value of Sales at Wholesale, except foliage which is based on net value of sales.

Foliage Plant Production and Sales

YEAR	Producers with Sales Over $10,000	Square Feet in Production	Net Value of Sales[1]	Sales at Wholesale
	Number	*1,000 Sq. Ft.*	*1,000 Dollars*	*Percent*
1981	**145**	**1,245**	**4,980**	**69**
1980	140	1,296	4,581	65
1979	134	1,032	4,732	68

[1] Gross value of sales less cost of plant material purchased from others.

Bedding Plant and Flower Production and Sales

CROP	YEAR	Producers with Sales Over $10,000	Sales		Percent of Sales at Wholesale	Wholesale		Value of Sales at Wholesale[1]
			Unit	Quantity		Unit	Price	
		Number		*1,000*	*Percent*			*1,000 Dollars*
BEDDING PLANTS:								
Flowering	**1981**	**310**	**Flat**	**4,842**	**88**	**Dollars**	**4.21**	**20,385**
	1980	320	Flat	4,572	86	Dollars	3.86	17,648
	1979	304	Flat	3,998	86	Dollars	3.43	13,713
Vegetable	**1981**	**280**	**Flat**	**1,586**	**86**	**Dollars**	**3.90**	**6,185**
	1980	280	Flat	1,533	84	Dollars	3.72	5,703
	1979	294	Flat	1,589	80	Dollars	3.40	5,403
FLOWERING POT PLANTS:								
Chrysanthemums	**1981**	**125**	**Pot**	**1,541**	**85**	**Dollars**	**2.60**	**4,007**
	1980	130	Pot	1,560	87	Dollars	2.55	3,978
	1979	124	Pot	1,300	90	Dollars	2.47	3,211
Geraniums	**1981**	**255**	**Pot**	**6,765**	**77**	**Cents**	**79.0**	**5,344**
	1980	260	Pot	6,745	77	Cents	70.0	4,722
	1979	244	Pot	6,560	77	Cents	66.0	4,330
Hydrangeas	**1981**	**36**	**Pot**	**79**	**80**	**Dollars**	**3.40**	**255**
	1980	37	Pot	61	89	Dollars	3.15	192
	1979	35	Pot	72	92	Dollars	2.72	196
Lilies	**1981**	**105**	**Pot**	**600**	**93**	**Dollars**	**2.79**	**1,674**
	1980	107	Pot	553	93	Dollars	2.69	1,488
	1979	109	Pot	560	91	Dollars	2.49	1,394
Poinsettias	**1981**	**150**	**Pot**	**1,457**	**84**	**Dollars**	**2.81**	**4,094**
	1980	158	Pot	1,479	88	Dollars	2.74	4,052
	1979	164	Pot	1,506	86	Dollars	2.56	3,855
CUT FLOWERS:								
Chrysanthemums, Standard	**1981**	**45**	**Bloom**	**470**	**75**	**Cents**	**60.4**	**284**
	1980	51	Bloom	463	70	Cents	56.8	263
	1979	50	Bloom	630	65	Cents	51.6	325
Pompon	**1981**	**60**	**Bunch**	**237**	**55**	**Dollars**	**2.25**	**533**
	1980	59	Bunch	234	50	Dollars	2.00	468
	1979	63	Bunch	228	61	Dollars	1.93	440
Roses, Hybrid Tea	**1981**	**14**	**Bloom**	**7,182**	**99**	**Cents**	**51.1**	**3,670**
	1980	12	Bloom	7,116	99	Cents	45.0	3,202
	1979	14	Bloom	7,178	96	Cents	36.4	2,613
Sweetheart	**1981**	**5**	**Bloom**	**3,500**	**100**	**Cents**	**39.5**	**1,383**
	1980	7	Bloom	3,430	97	Cents	36.3	1,245
	1979	9	Bloom	3,181	99	Cents	26.7	849
Snapdragons	**1981**	**45**	**Stem**	**667**	**60**	**Cents**	**31.2**	**208**
	1980	48	Stem	674	56	Cents	28.5	192
	1979	45	Stem	548	61	Cents	28.6	157
Gladioli	**1981**	**16**	**Spike**	**9,680**	**95**	**Cents**	**15.1**	**1,462**
	1980	17	Spike	9,353	97	Cents	13.5	1,263
	1979	19	Spike	9,295	99	Cents	9.3	864

[1] Equivalent wholesale value of all sales.

LIVESTOCK AND POULTRY

General Information

Livestock and associated products have long been a major part of Michigan's economy. In 1981 livestock cash receipts increased 6 percent from the previous year and comprised 42 percent of Michigan's total farm cash receipts.

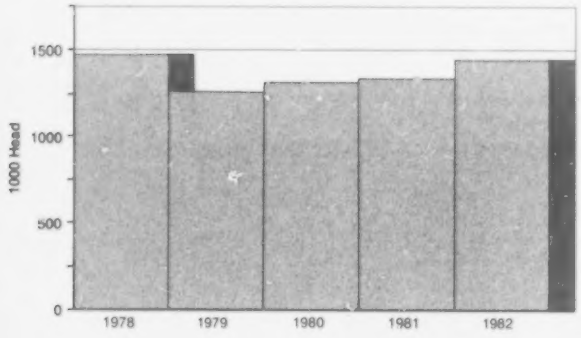
Dairying remains the largest of Michigan's farming enterprises, accounting for nearly one-fourth of the state's total farm cash receipts. Michigan ranks sixth in the nation in number of dairy cows and total milk production.

The build-up in Michigan's cattle herd continued in 1981. The total cattle inventory was up 8 percent due largely to increases in beef cows and calves. Increased numbers failed to offset lower cattle and calf prices during 1981, as gross income fell 26 percent below previous year levels. Cattle prices were at a three-year low and gross income from cattle and calves was at its lowest level since 1976. Hog producers cut back production sharply during 1981 in response to the poor prices which prevailed in 1980. Hog inventory numbers declined 17 percent. Increased hog prices failed to offset lower production and left gross income 4 percent below the 1980 level. Both sheep production and prices declined during 1981. Gross income from sheep and lambs declined 37 percent to its lowest level since 1976.

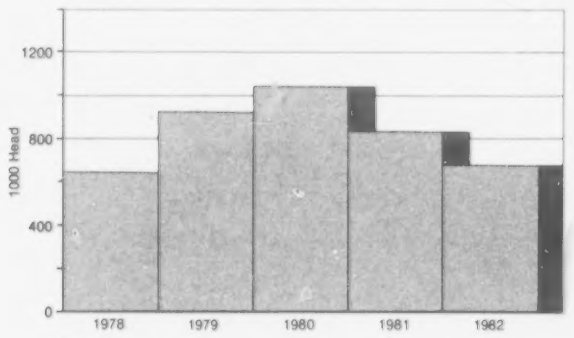
Increased output and mixed prices characterized the Michigan poultry industry in 1981. Gross income from eggs, Michigan's leading poultry enterprise was up 19 percent. Egg production and prices both increased from 1980 levels. Turkey production increased during 1981 but prices declined, leaving gross income nearly the same as 1980. A large drop in production offset a slight price increase and left 1981 broiler income nearly one-fourth below the 1980 level. Gross income from chicken production (excluding broilers) increased 9 percent.

Livestock Numbers on Michigan Farms, January 1

Cattle and Calves

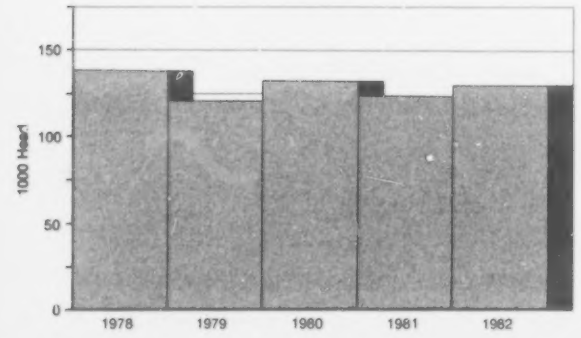


Hogs[1]

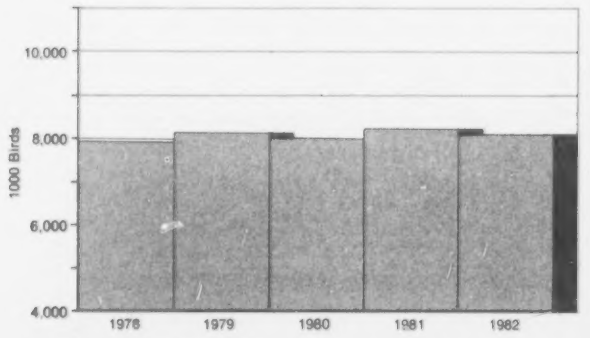


[1] December 1 of previous year

Sheep and Lambs



Chickens[1]



[1] December 1 of previous year

Number and Value of Livestock and Poultry, January 1

SPECIES AND YEAR	Michigan			United States		
	Number	Value Per Head or Bird	Total Value	Number	Value Per Head or Bird	Total Value
	1,000	*Dollars*	*1,000 Dollars*	*1,000*	*Dollars*	*1,000 Dollars*
ALL CATTLE AND CALVES						
1982	**1,450**	**580.00**	**841,000**	**115,691**	**415.00**	**47,978,582**
1981	1,340	660.00	884,400	114,321	475.00	54,292,044
1980	1,310	640.00	838,400	111,192	502.00	55,831,294
1979	1,250	500.00	625,000	110,864	403.00	44,697,773
1978	1,470	325.00	477,750	116,375	232.00	27,030,385
ALL HOGS (Including Pigs)[1]						
1982	**690**	**73.00**	**50,370**	**58,691**	**70.10**	**4,115,148**
1981	830	79.50	65,985	64,512	74.70	4,820,793
1980	1,040	59.00	61,360	67,353	56.10	3,774,920
1979	925	84.00	68,040	60,100	83.30	5,004,269
1978	640	66.00	42,240	56,539	63.20	3,575,279
ALL SHEEP AND LAMBS						
1982	**130**	**64.00**	**8,320**	**13,116**	**56.90**	**746,520**
1981	124	75.00	9,300	12,936	69.80	903,332
1980	132	68.00	8,976	12,687	78.20	992,127
1979	121	55.00	6,655	12,220	71.70	875,927
1978	138	41.50	5,727	12,348	51.50	636,088
ALL CHICKENS[1]						
1982	**8,100**	**1.50**	**12,150**	**383,220**	**1.89**	**724,714**
1981	8,200	1.35	11,070	392,110	1.88	738,646
1980	8,000	1.45	11,600	400,585	1.81	726,365
1979	8,140	1.55	12,617	396,933	1.75	696,019
1978	7,959	1.35	10,745	386,518	1.69	651,851
TURKEYS — Breeder Hens[1]						
1982	**50**	**12.00**	**600**	**3,415**	**15.32**	**52,329**
1981	52	18.00	936	3,749	14.11	52,887
1980	44	13.00	572	3,705	13.58	50,304
1979	40	16.00	640	3,370	12.53	42,222
1978	52	10.80	562	3,038	11.32	34,390
TOTAL VALUE — ALL SPECIES						
1982	—	—	**912,440**	—	—	**53,617,293**
1981	—	—	971,691	—	—	60,807,702
1980	—	—	920,908	—	—	61,375,010
1979	—	—	712,952	—	—	51,316,210
1978	—	—	537,024	—	—	31,927,993

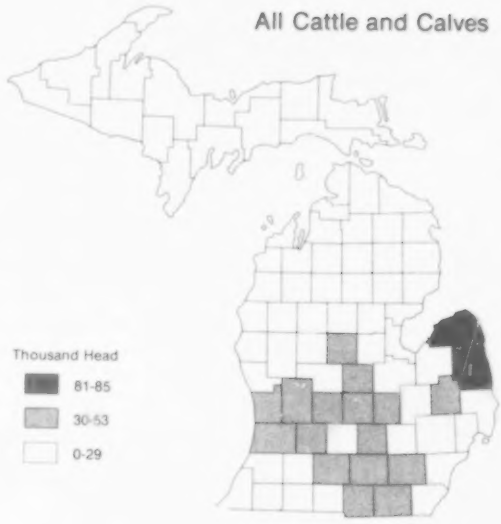
[1] December 1 of previous year.

Cattle and Calves

The upswing in the cattle cycle entered its third year during 1981. Michigan cattle numbers increased 8 percent to 1,450,000 head on January 1, 1982. This was the largest cattle inventory in the state since 1978. A large increase in cow numbers led to the overall gain. Beef cows climbed to their highest level since 1977 while milk cows rose nearly 2 percent to 396,000 head at the end of 1981.

Milk cow replacement heifers increased 3 percent while beef cow replacement heifers showed a slight decrease. This may indicate that the large build-up in the state's beef cow herds is over.

Fed cattle numbers remained well below year earlier levels throughout 1981, with total fed cattle marketings falling 10 percent below the previous year. The build-up in the state's cattle herds corresponds with the sharp drop in marketings of cattle and calves that occurred in 1981. Cattle and calf prices were down substantially. These lower prices, combined with reduced marketings, resulted in an approximate 25 percent drop in gross income from Michigan cattle in 1981. Michigan commercial cattle slaughter increased 10 percent during 1981.



Number on Farms by Class, January 1

CLASS	1982	1981	1980	1979	1978
			1,000 Head		
Cows and Heifers that have Calved	**610**	530	540	540	600
Beef Cows	**214**	140	140	138	196
Milk Cows	**396**	390	400	402	404
Heifers, 500 pounds and over	**254**	260	257	223	269
For Beef Cow replacement	**35**	36	25	19	29
For Milk Cow replacement	**179**	174	193	149	184
Other Heifers	**40**	50	39	55	56
Steers, 500 pounds plus	**190**	177	181	187	244
Bulls, 500 pounds plus	**20**	19	22	19	28
Calves, less than 500 pounds	**376**	354	310	281	329
All Cattle and Calves	**1,450**	1,340	1,310	1,250	1,470
Number of Cattle Operations	**32,000**	32,000	33,000	32,000	33,000

Balance Sheet

YEAR	On Hand January 1, All Cattle and Calves	Calves Born	Inshipments	Marketings		Farm Slaughter	Deaths		On Hand Following January 1, all Cattle
				Cattle	Calves	Cattle and Calves	Cattle	Calves	
					1,000 Head				
1981	**1,340**	**500**	**110**	**332**	**40**	**8**	**30**	**90**	**1,450**
1980	1,310	475	121	395	56	6	32	77	1,340
1979	1,250	470	91	307	82	10	25	77	1,310
1978	1,470	510	72	602	80	9	30	81	1,250
1977	1,570	570	89	558	60	11	40	90	1,470

Cattle and Calves

Production and Income

YEAR	Production[1]	Marketings[2]	Average Price per 100 Pounds		Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
			Cattle	Calves				
	1,000 Pounds		Dollars		1,000 Dollars		1,000 Dollars	
1981	**425,410**	**365,332**	**49.50**	**65.20**	**213,308**	**182,237**	**16,589**	**198,826**
1980	393,420	454,355	55.90	82.50	227,471	257,567	11,334	268,901
1979	356,865	349,410	58.20	86.60	215,754	208,565	17,593	226,158
1978	502,195	688,375	44.20	61.60	221,997	306,805	11,545	318,350
1977	513,715	601,720	32.80	38.80	168,197	197,987	10,588	208,575

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Feedlots and Cattle on Feed for Slaughter[1]

YEAR	Number of Feedlots	January 1	April 1	July 1	October 1	Total Marketed
	1,000 Head					
1982	—	**135**	—	—	—	—
1981	1,300	160	145	125	120	197
1980	1,400	165	150	155	130	218
1979	1,500	180	165	145	130	219
1978	1,500	200	190	160	155	271

[1] Estimates discontinued effective April, 1982.

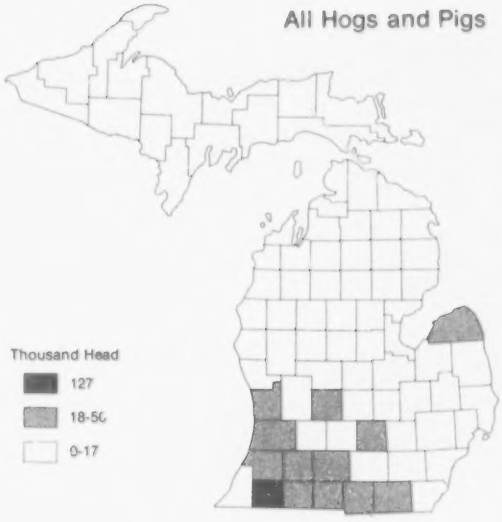
Commercial Slaughter

YEAR AND MONTH	Cattle			Calves		
	Head	Liveweight		Head	Liveweight	
		Per Head	Total		Per Head	Total
	1,000	Pounds	1,000 Lbs.	1,000	Pounds	1,000 Lbs.
1981 January	**45.8**	**1,207**	**55,359**	**7.1**	**267**	**1,894**
February	**38.3**	**1,211**	**46,379**	**6.8**	**275**	**1,885**
March	**44.6**	**1,220**	**54,400**	**6.6**	**272**	**1,790**
April	**43.5**	**1,223**	**53,129**	**6.6**	**261**	**1,731**
May	**38.8**	**1,201**	**46,608**	**6.5**	**282**	**1,828**
June	**44.3**	**1,212**	**53,699**	**6.8**	**258**	**1,745**
July	**45.6**	**1,198**	**54,623**	**7.2**	**246**	**1,761**
August	**46.7**	**1,183**	**55,252**	**5.8**	**234**	**1,366**
September	**44.0**	**1,192**	**52,469**	**6.9**	**242**	**1,678**
October	**34.5**	**1,164**	**40,175**	**6.5**	**241**	**1,563**
November	**35.8**	**1,185**	**42,368**	**6.2**	**224**	**1,390**
December	**41.0**	**1,175**	**48,205**	**7.3**	**245**	**1,791**
1981[1]	**503**	**1,198**	**602,668**	**80**	**254**	**20,425**
1980	465	1,173	545,401	76	255	19,479
1979	475	1,165	553,259	82	234	19,104
1978	627	1,143	716,127	101	184	18,530
1977	734	1,112	816,636	133	166	22,109

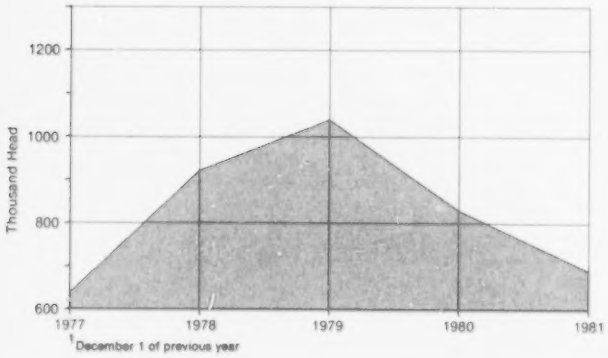
[1] Months may not add exactly to annual totals because of rounding.

Hogs

Michigan hog and pig numbers dropped to 690,000 head as of December 1, 1981, failing 17 percent below last year. The December 1 count returns the state's hog inventory close to the level established back in June, 1978. The impact of soaring interest rates and poor hog prices prompted Michigan farmers to intensify their cutbacks of both market and breeding hogs. Breeding stock (sows, gilts, and boars) dropped 19 percent below the June, 1981 level and were 12 percent less than December, 1980. Market hog numbers stood 10 percent under the June 1, 1981 inventory and 18 percent below a year earlier. The Fall pig crop totaled 563,000 pigs saved, 13 percent below the Fall of 1980 and 29 percent under the 1979 Fall pig crop. Southwest Michigan is the major producing area in the State.



All Hogs and Pigs on Michigan Farms [1]



Number on Farms by Class and Number of Operations

CLASS	1981		1980		1979		1978		1977	
	Dec. 1	**June 1**	Dec. 1	June 1	Dec. 1	June 1	Dec. 1	June 1	Dec. 1	June 1
	1,000 Head									
Breeding Hogs	**105**	**129**	120	162	161	180	158	120	101	121
Market Hogs	**585**	**651**	710	738	879	720	767	510	539	549
All Hogs	**690**	**780**	830	900	1,040	900	925	630	640	670
Number of Hog Operations	**9,200**		9,600		9,600		9,600		9,600	

Pig Crop

YEAR	Spring			Fall		
	Sows Farrowed	Pigs per Litter	Pig Crop	Sows Farrowed	Pigs per Litter	Pig Crop
	1,000 Head	*Head*	*1,000 Head*		*Head*	*1,000 Head*
1981	**86**	**7.7**	**662**	**75**	**7.5**	**563**
1980	112	6.9	773	95	6.8	646
1979	104	7.0	728	115	6.9	794
1978	78	7.0	546	90	7.4	666
1977	76	7.1	540	72	6.7	482

Hogs

Balance Sheet

YEAR	Beginning Inventory	Pigs Saved		Inship-ments	Market-ings[1]	Farm Slaughter[2]	Deaths	Number on Hand December 1
		Spring	Fall					
	1,000 Head							
1981	**830**	**662**	**563**	**64**	**1,291**	**18**	**120**	**690**
1980	1,040	773	646	63	1,523	19	150	830
1979	925	728	794	55	1,312	20	130	1,040
1978	640	546	622	43	892	19	130	925
1977	720	540	482	47	1,001	18	130	640

[1] Excludes interfarm sales within the state.
[2] Excludes custom slaughter for farmers at commercial establishments.

Production and Income

YEAR	Pro-duction[1]	Market-ings[2]	Average Price per 100 Pounds	Value of Production	Cash Receipts[3]	Value of Home Con-sumption	Gross Income
	1,000 Pounds		Dollars	1,000 Dollars		1,000 Dollars	
1981	**288,235**	**293,625**	**43.70**	**125,441**	**129,020**	**5,664**	**134,684**
1980	331,304	347,775	38.80	128,138	135,678	5,308	140,986
1979	306,997	286,470	42.90	132,029	124,490	5,847	130,337
1978	236,376	202,602	47.60	112,514	96,439	6,105	102,544
1977	228,729	229,758	40.50	92,635	93,052	5,249	98,301

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Commercial Slaughter

YEAR AND MONTH	Head	Liveweight	
		Per Head	Total
	1,000	Pounds	1,000 Lbs.
1981 January	**512.4**	**238**	**122,192**
February	**450.0**	**236**	**106,892**
March	**523.5**	**237**	**124,024**
April	**519.1**	**238**	**123,513**
May	**458.4**	**239**	**109,620**
June	**403.9**	**241**	**97,160**
July	**415.7**	**240**	**99,822**
August	**391.9**	**241**	**94,281**
September	**443.8**	**241**	**107,034**
October	**454.2**	**240**	**109,097**
November	**444.7**	**240**	**106,660**
December	**503.6**	**240**	**120,926**
1981[1]	**5,521**	**239**	**1,321,221**
1980	4,678	241	1,125,724
1979	4,926	239	1,178,078
1978	4,262	238	1,012,861
1977	3,787	240	909,489

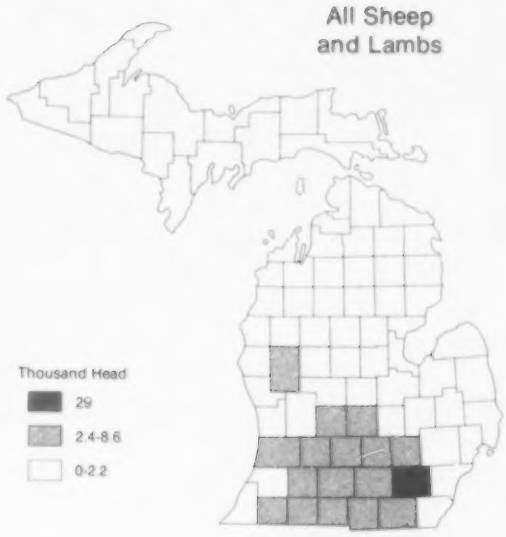
[1] Months may not add exactly to annual totals because of rounding.

Sheep and Lambs

Michigan sheep numbers rebounded during 1981 with the January 1, 1982 inventory reaching 130,000 head, up 5 percent from the previous year. The 1981 lamb crop of 95,000 head was down 5,000 head from a year earlier. Two-thirds of Michigan's sheep are located in South Central and Southeast Michigan. Washtenaw County, with 29,000 head, accounts for 22 percent of the state's total.

Sheep and lamb marketings at 7.2 million pounds were down 27 percent from 1980. The lower inventory at the start of 1981, a reduced lamb crop, and a buildup in inventory during the year resulted in the lower marketings. Producers received sharply lower prices for their sheep and lambs during 1981. Slaughter lamb prices reached their lowest level since 1977. The lower prices, combined with lower marketings, left 1981 cash receipts 39 percent below the previous year.

Commercial sheep and lamb slaughter in Michigan during 1981 was down 2 percent from the year before. Wool production at 975,000 pounds was up nearly 3 percent. Sheep shorn increased 4 percent, while the average weight per fleece declined slightly to 7.7 pounds. This was the lowest average weight per fleece in Michigan since 1921. Wool prices declined 4 cents per pound in 1981.



Number on Farms by Class, January 1

CLASS	1982	1981	1980	1979	1978
			1,000 Head		
Ewe Lambs	**16**	15	16	14	13
Wether and Ram Lambs	**4**	4	3	3	3
Ewes, 1 year plus	**83**	80	82	75	88
Rams and Wethers, 1 year plus	**3**	3	3	3	4
Total Stock Sheep	**106**	102	104	95	108
Sheep and Lambs on Feed	**24**	22	28	26	30
All Sheep and Lambs	**130**	124	132	121	138

Balance Sheet

YEAR	On Hand January 1, All Sheep and Lambs	Lambs Saved	Inshipments	Marketings[1]		Farm Slaughter[2]	Deaths		On Hand Following January 1, All Sheep & Lambs
				Sheep	Lambs		Sheep	Lambs	
					1,000 Head				
1981	**124**	**95**	**1**	**10**	**61**	**2**	**6**	**11**	**130**
1980	132	100	3	18	77	1	5	10	124
1979	121	90	1	3	61	1	5	10	132
1978	138	103	1	20	78	1	10	12	121
1977	149	103	1	13	77	1	12	12	138

[1] Excludes interfarm sales within the state.
[2] Excludes custom slaughter for farmers at commercial establishments.

Sheep and Lambs

Production and Income

YEAR	Production[1]	Marketings[2]	Average Price per 100 lbs.		Value of Production	Cash Receipts[3]	Value of Home Consumption	Gross Income
			Sheep	Lambs				
	1,000 Pounds		Dollars		1,000 Dollars		1,000 Dollars	
1981	**8,140**	**7,183**	**19.80**	**51.90**	**3,693**	**3,332**	**178**	**3,510**
1980	8,955	9,849	27.90	63.20	5,058	5,439	108	5,547
1979	7,905	6,394	28.00	66.60	4,651	4,116	114	4,230
1978	6,045	10,227	20.30	62.10	4,802	5,321	83	5,404
1977	7,500	8,637	13.80	51.60	3,553	3,890	74	3,964

[1] Adjustments made for changes in inventory and for inshipments.
[2] Excludes custom slaughter for use on farms where produced and interfarm sales within the state.
[3] Receipts from marketings and sale of farm slaughter.

Lamb Crop

YEAR	Breeding Ewes 1 Yr.+ January 1	Lambs Saved per 100 Ewes 1 Year+	Lamb Crop
	1,000 Head	Head	1,000 Head
1981	**80**	**119**	**95**
1980	82	122	100
1979	75	120	90
1978	88	117	103
1977	91	113	103

Commercial Slaughter

YEAR AND MONTH	Head	Liveweight	
		Per Head	Total
	1,000	Pounds	1,000 Lbs.
1981 January	**23.4**	**112**	**2,612**
February	**19.9**	**112**	**2,239**
March	**22.9**	**112**	**2,572**
April	**25.4**	**108**	**2,735**
May	**22.2**	**109**	**2,425**
June	**24.0**	**103**	**2,474**
July	**25.2**	**102**	**2,573**
August	**25.5**	**108**	**2,749**
September	**27.2**	**111**	**3,022**
October	**25.4**	**109**	**2,762**
November	**24.6**	**109**	**2,679**
December	**24.6**	**111**	**2,733**
1981[1]	**290.3**	**109**	**31,574**
1980	297.1	109	32,291
1979	264.1	110	29,010
1978	294.3	109	32,145
1977	327.9	106	34,836

[1] Months may not add exactly to annual totals because of rounding.

Wool Production and Income

YEAR	Sheep and Lambs January 1	Number Sheep Shorn	Weight per Fleece	Production	Price per Pound	Cash Income
	1,000 Head		Pounds	1,000 Lbs.	Cents	1,000 Dollars
1981	**124**	**127**	**7.7**	**975**	**70**	**683**
1980	132	122	7.8	950	74	703
1979	121	118	7.9	934	73	682
1978	138	128	8.1	1,040	67	697
1977	149	143	7.8	1,111	67	744

Poultry

Michigan's December 1, 1981 poultry inventory totaled 8.1 million chickens (excluding broilers), slightly under a year ago. Close to 80 percent of these birds are hens and pullets of laying age. Egg production remained the state's major poultry enterprise in 1981, with cash receipts for eggs totaling $69 million. Most of the states poultry flocks are located in the southern half of the lower peninsula.

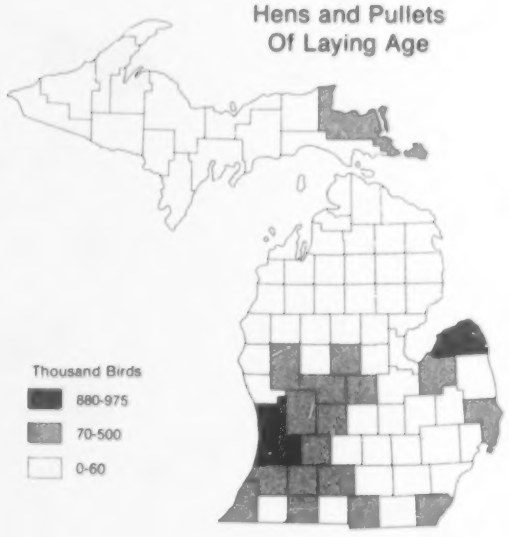
Turkey growers in Michigan produced a record 40.3 million live-weight pounds of turkey in 1981, exceeding 1980 production by 7 percent. A 3 cent reduction in price per pound offset the increased poundage, causing gross income to dip slightly below the 1980 record level.

The State's commercial broiler industry cutback production by 27 percent to 4.5 million pounds. Earnings totaled close to $1.5 million in 1981.

Chickens: Average Number of Layers on Hand

MONTH	1981	1980	1979
		1,000 Birds	
January	**6,400**	6,225	6,425
February	**6,300**	6,200	6,400
March	**6,300**	6,128	6,225
April	**6,226**	6,033	6,225
May	**6,300**	6,010	6,240
June	**6,275**	6,110	6,190
July	**6,300**	6,180	6,225
August	**6,450**	6,225	6,275
September	**6,501**	6,225	6,300
October	**6,475**	6,300	6,250
November	**6,375**	6,400	6,225
December	**6,275**	6,500	6,226
Annual Average[1]	**6,367**	6,189	6,278

[1] December 1 previous year to November 30.



Number on Farms by Class, December 1

CLASS	1981	1980	1979	1978	1977
			1,000 Birds		
CHICKENS:					
Pullets of laying age	**3,800**	3,860	3,850	3,500	3,333
Hens	**2,500**	2,540	2,400	2,850	2,967
Hens and Pullets of laying age	**6,300**	6,400	6,250	6,350	6,300
Pullets, 3 months plus	**820**	950	825	840	915
Pullets, less than 3 months	**940**	800	885	900	703
Other Chickens	**40**	50	40	50	41
All Chickens (excluding broilers)	**8,100**	8,200	8,000	8,140	7,959
TURKEYS:					
Breeding Hens	**50**	52	44	40	52

Poultry

Egg Production

MONTH	1981	1980	1979
	Million		
January	**133**	124	125
February	**119**	111	114
March	**133**	122	126
April	**124**	119	122
May	**126**	118	124
June	**127**	117	123
July	**133**	124	133
August	**131**	128	131
September	**127**	123	122
October	**130**	124	126
November	**126**	123	122
December	**131**	132	126
Total[1]	**1,541**	1,459	1,491

[1] December 1 previous year to November 30.

Egg-Type Chicks Hatched

MONTH	1981	1980	1979
	1,000 Birds		
January	**709**	630	650
February	**756**	506	315
March	**1,044**	980	575
April	**1,285**	960	825
May	**885**	1,025	880
June	**835**	1,040	815
July	**685**	735	755
August	**815**	650	600
September	**542**	622	320
October	**464**	920	450
November	**583**	506	640
December	**716**	891	600
Total	**9,319**	9,465	7,425

Chicken and Broiler Production and Income

YEAR	Chickens (excluding broilers)				Broilers			
	Number Raised	Pounds Produced	Price per Pound	Gross Income[1]	Number Raised	Pounds Produced	Price per Pound	Gross Income
	1,000 Head	*1,000 Pounds*	*Cents*	*1,000 Dollars*	*1,000 Head*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1981	**5,650**	**22,787**	**8.5**	**1,993**	**1,130**	**4,520**	**32.0**	**1,446**
1980	5,250	21,333	9.0	1,833	1,552	6,053	31.0	1,876
1979	5,000	20,284	12.0	2,504	2,570	10,794	28.0	3,022
1978	5,600	22,338	11.0	2,411	1,190	5,355	29.2	1,564
1977	5,400	20,851	10.0	2,073	910	3,913	26.0	1,017

[1] Value adjusted for change in inventory.

Turkey Production and Income

YEAR	Breeder Hens			Market Turkeys			
	On Farms Dec. 1, Previous Year	Farm Value		Number Raised[1]	Pounds Produced[2]	Price per Pound[3]	Gross Income
		Per Bird	Total				
	1,000 Head	*Dollars*	*1,000 Dollars*	*1,000 Head*	*1,000 Pounds*	*Cents*	*1,000 Dollars*
1982	**50**	**12.00**	**600**	—	—	—	—
1981	52	18.00	936	1,550	40,300	41.0	16,523
1980	44	13.00	572	1,450	37,700	44.0	16,588
1979	40	16.00	640	1,200	31,200	45.0	14,040
1978	52	10.80	562	1,210	30,250	48.0	14,520
1977	55	9.00	495	1,210	29,040	34.9	10,135

[1] Based on turkeys hatched September previous year through August, including poultry inshipments. Excludes death loss.
[2] Includes home consumption.
[3] Liveweight equivalent price.

Honey

Honey bees are important to Michigan's agriculture for more than just the honey and beeswax they produce. Bees are responsible for successful pollination of the State's fruit and vegetable crops. Bee colonies are widely distributed across the State, with major concentration in the "Thumb," southwestern counties, the Grand Traverse Bay area and several counties in southeastern Michigan.

Although Michigan's 1981 honey production was up 12 percent from the previous year, production still remained well below levels reached in earlier years. Adverse weather reduced bee activity, causing relatively poor honey yields for the second consecutive year. Yield per colony, at 50 pounds, did improve 7 pounds from the low 1980 level. Colony numbers declined 4 percent to 98,000. Beekeepers received an average of 62.7 cents per pound for their 1981 crop, up slightly from the previous year. Disappointing honey prices and two years of poor honey yields contributed to the decline in colony numbers during the past year. With a total 1981 production of 4.9 million pounds, Michigan ranked 11th nationally in honey production.

Honey Production and Value

YEAR	Colonies of Bees	Honey				Stocks in Grower's Hands Dec. 15	Beeswax		
		Production per Colony	Total Production	Average Price	Total Value		Production	Average Price	Value
	1,000	*Pounds*	*1,000 Pounds*	*Cents*	*1,000 Dollars*	*1,000 Pounds*	*1,000 Pounds*	*Dollars*	*1,000 Dollars*
1981	**98**	**50**	**4,900**	**62.7**	**3,072**	**1,911**	**103**	**1.91**	**197**
1980	102	43	4,386	61.3	2,689	1,447	101	1.84	186
1979	106	61	6,466	63.5	4,106	1,746	84	1.84	155
1978	103	58	5,974	51.2	3,059	2,031	93	1.75	163
1977	105	54	5,670	49.8	2,824	1,871	85	1.65	140

Mink

The majority of Michigan's mink are raised in the Upper Peninsula, where the climate is ideally suited for fur production. Nearly a third of the State's mink ranches are located in Delta and Menominee Counties. The Escanaba-Gladstone area remains the leading area of the State for mink production, although ranches are found in several areas of the Lower Peninsula. In 1980, the latest year for which statistics were available, mink ranches produced 129,000 pelts. This was the largest pelt output in Michigan since 1974. Slightly over 39,000 females were bred in 1980 to produce kits in 1981, a 9 percent increase from a year earlier and a continuation of the upward trend of the past few years. Michigan ranked tenth natinally in 1980 pelt production.

Mink: Number of Ranches and Pelt Production by Color Class

YEAR	Mink Ranches	Pelt Production by Color Class						Females Bred to Produce Kits in Next Year
		Standard	Pastel	Violet	Pearl	Other	Total	
	Number	*1,000 Pelts*						*1,000 Females*
1981[1]	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
1980	48	55.2	18.1	9.2	7.8	38.7	129	39.1
1979	48	47.8	18.7	12.8	8.6	36.1	124	35.8
1978	45	39.5	27.9	9.4	10.3	25.9	113	34.5
1977	37	30.0	23.9	7.1	10.6	32.0	104	32.0

[1] Mink statistics have been discontinued. The final survey of mink ranches was conducted in May 1981 to obtain 1980 production.

Equine Racing Survey

The horse industry was identified as an important component of Michigan agriculture during the 1981 Governor's Conference on Agriculture. It was recommended that current and reliable equine statistics be made available for policy making decisions. A survey of Michigan racing equine was conducted at the request of the Michigan horse industry to satisfy these data needs. The following is a short summary of the results of that survey.

Survey Summary

ITEM	Average Per All Operations	Total
Operations with Racing Equine	—	2,800
Operatins with Capital Equipment	—	2,480
Operations with Equine Income	—	2,300
Operations with Acreage	—	2,200
Operations Employing Part-Time Workers	—	1,140
Operations Employing Full-Time Workers	—	520
Number of Standardbreds	—	14,500
Number of Thoroughbreds	—	3,300
Number of Quarter Horses	—	4,600
Number of Appaloosas	—	600
Total Racing Equine	8.2	23,000
Value of Racing Equine	—	$175,000,000
Value of Equine Acreage	—	$185,000,000
Market Value of Capital Equipment	—	$ 50,000,000
Total Investment	$146,500	$410,000,000
Total Equine Income	$ 20,900	$ 58,500,000
Full-Time Labor Expense	—	$ 8,320,000
Part-Time Labor Expense	—	$ 4,310,000
All Other Expense	—	$ 47,000,000
Total Expenses	$ 21,300	$ 59,630,000
Total Acres Operated	—	160,000
Acres Devoted Exclusively to Equine	—	84,000
Value of Acreage Operated	—	$360,000,000
Value of Acres Devoted to Equine	—	$185,000,000
Operations with Racing Starts — Percent	—	68
Operations with Training Tracks — Percent	—	38

Number of Operations

CLASSIFICATION	Total Racing Equine Operations	Standardbred	Thoroughbred	American Quarter	Appaloosa
			Number		
HORSES PER OPERATION					
1-5	1,480	1,030	260	170	20
6-10	720	420	80	200	20
11-25	500	320	70	90	20
26+	100	70	20	10	[1]
TOTAL	2,800	1,840	430	470	60

Number of Racing Equine

CLASSIFICATION	Total All Breeds	Average Per Operation	Standardbred	Thoroughbred	American Quarter	Appaloosa
			Number			
HORSES PER OPERATION						
1-5	4,560	3.1	2,920	790	740	110
6-10	5,730	8.0	3,200	660	1,650	220
11-25	7,900	15.8	5,170	1,130	1,330	270
26+	4,810	48.1	3,210	720	880	[1]
TOTAL	23,000	8.2	14,500	3,300	4,600	600
Average/Operation	—	—	7.9	7.7	9.8	10.0

[1] Due to insufficient data, estimate not available.

Total Racing Investment, Income, and Expenses — Comparison

CLASSIFICATION	Total Investment	Total Income	Total Expenses
		1,000 Dollars	
BREED			
Standardbred	256,670	40,530	40,340
Thoroughbred	81,850	11,790	11,670
American Quarter	66,150	5,890	7,080
Appaloosa	5,330	290	540
HORSES PER OPERATION			
1-5	92,020	11,100	13,880
6-10	109,460	16,070	15,850
11-25	138,960	22,720	21,000
26+	69,560	8,610	8,900
TOTAL	410,000	58,500	59,630

DAIRY

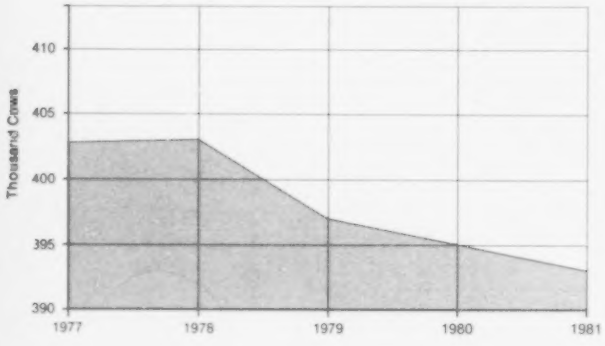
General Information

Dairy cash receipts accounted for nearly one-fourth of Michigan's total cash farm receipts in 1981, as the dairy industry retained its position as the state's largest single agricultural enterprise. Cash receipts from the marketings of milk and cream reached nearly $694 million during 1981, up 7 percent from the previous years. Dairy cash receipts increased at a slightly faster rate in 1981 than total cash receipts from Michigan agriculture in general.

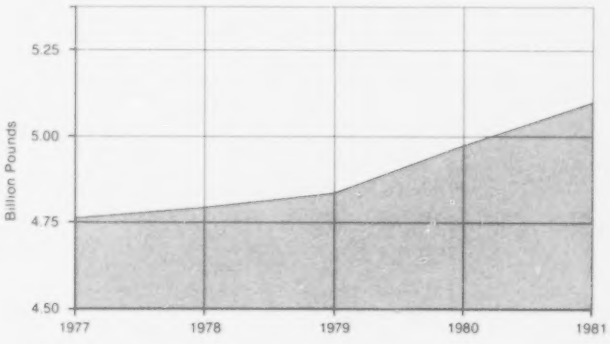
Michigan's 1981 milk production increased nearly 3 percent from the previous year due to record milk output per cow. Michigan's milk per cow average was 7 percent above the U.S. average. Among the top dairy producing states, Michigan production per cow ranked second only to California's. National figures placed Michigan eighth in production per cow and sixth in both milk cow numbers and total milk production.

On an annual basis, prices received for milk increased 5 percent during 1981. This was a much smaller increase than occurred in other recent years. Almost all of this increase occurred in the early months of 1981 following the October, 1980 dairy price support increase. There were no increases in the support level during 1981. Legislation enacted during 1981 kept the dairy price support level at the original October, 1980 level of $13.10 per hundred weight (3.5% milk). By December, 1981, milk prices at the farm were actually running below previous year levels, reversing a long trend of price increases. During 1981, Michigan dairy farmers continued to face rising production costs for items such as feed, fuel, electricity, machinery and interest charges.

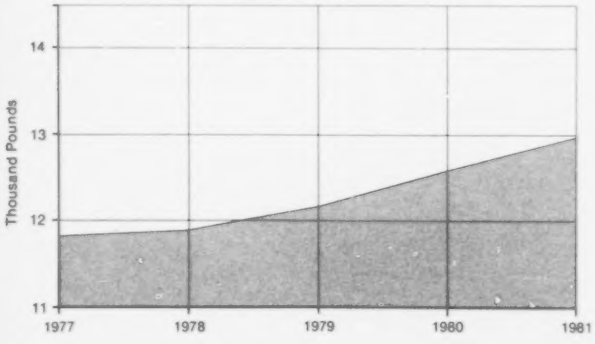
Average Number of Milk Cows on Farms



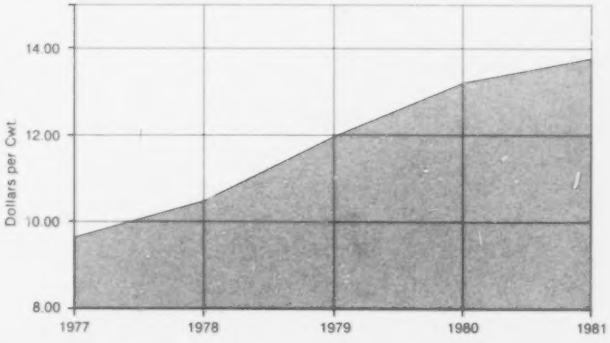
Total Milk Production



Average Production per Cow



Average Price for Milk



Cows and Milk Production

Increased milk output per cow again resulted in increased milk production in Michigan during 1981. Michigan's dairy herds produced over 5.1 billion pounds of milk, up nearly 3 percent from the previous year. Average milk cow numbers declined to 393,000 head, the lowest number since 1882. However, on a monthly basis, milk cow numbers increased during late 1981 and by December numbers were above the previous year. Milk production per cow increased 3 percent to 12,985 pounds, another all time record.

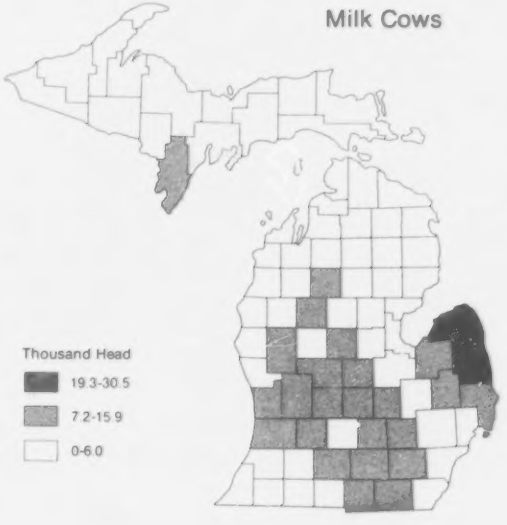
Of the milk produced in Michigan only 2 percent was used on the farm. The balance went into commercial marketing channels. Whole milk sales to plants and dealers totaled nearly 5.0 billion pounds. Of the total milk sold to plants and dealers, 96 percent was sold as fluid grade milk with the remainder sold as manufacturing grade milk.

A 5 percent rise in prices received for milk and the boost in pounds marketed, resulted in a 7 percent gain in gross cash receipts from Michigan milk production in 1981. Prices received for whole milk sold to plants and dealers averaged $13.80 per hundred weight. Dairy farm cash receipts at nearly $694 million continued to account for nearly one-fourth of Michigan's total farm cash receipts in 1981.

Nationally, milk production rose 3 percent during 1981 to a new record level. Output per cow set a new record and total cow numbers continued to average 1 percent above the previous year's level. Michigan's dairy herds produced nearly 4 percent of the total 1981 national milk production.

Milk Cows on Farms

MONTH	1981	1980	1979	1978	1977
			1,000 Head		
January	**390**	400	402	402	403
February	**391**	397	400	402	401
March	**391**	397	395	400	401
April	**391**	395	394	402	402
May	**391**	396	394	405	402
June	**392**	398	394	403	401
July	**393**	395	395	404	403
August	**394**	394	396	404	401
September	**395**	394	399	408	405
October	**396**	392	399	406	403
November	**396**	390	400	403	404
December	**396**	390	400	402	404
Average	**393**	395	397	403	403



Milk Production per Cow

MONTH	1981	1980	1979	1978	1977
			Pounds		
January	**1,070**	1,025	985	980	970
February	**975**	980	910	900	890
March	**1,095**	1,060	1,020	1,010	985
April	**1,090**	1,050	1,020	990	975
May	**1,130**	1,095	1,060	1,030	1,030
June	**1,105**	1,065	1,040	1,010	1,010
July	**1,110**	1,080	1,040	1,020	1,010
August	**1,120**	1,070	1,040	1,010	1,020
September	**1,085**	1,045	1,020	980	995
October	**1,085**	1,050	1,025	1,005	1,010
November	**1,040**	1,010	975	965	960
December	**1,080**	1,050	1,020	980	970
Annual	**12,985**	12,582	12,166	11,893	11,814

Total Milk Production by Month

MONTH	1981	1980	1979	1978	1977
			Million Pounds		
January	**417**	410	396	394	391
February	**381**	389	364	362	357
March	**428**	421	403	404	395
April	**426**	415	402	398	392
May	**442**	434	418	417	414
June	**433**	424	410	407	405
July	**436**	427	411	412	407
August	**441**	422	412	408	410
September	**429**	412	407	400	403
October	**430**	412	409	408	407
November	**412**	394	390	389	388
December	**428**	410	408	394	392
Annual	**5,103**	4,970	4,830	4,793	4,761

Milk Production, Utilization, Marketing and Value

PRODUCTION AND USE	Unit	1981	1980	1979	1978	1977
PRODUCTION AND UTILIZATION						
Number of farms with milk cows	Number	**9,500**	9,500	10,000	10,000	10,500
Production of Milk						
Total milk produced on farms	Mil. Lbs.	**5,103**	4,970	4,830	4,793	4,761
Milkfat produced	Mil. Lbs.	**186**	182	177	177	176
Percentage of milkfat	Percent	**3.64**	3.67	3.67	3.69	3.69
Utilization						
Milk Marketed by Producers						
Sold to plants and dealers						
as whole milk[1]	Mil. Lbs.	**4,995**	4,870	4,715	4,675	4,625
as separated cream	Mil. Lbs.	**NA**	NA	NA	3	19
Sold directly to consumers						
quantity	Mil. Lbs.	**20**	20	25	26	26
Milk used where produced						
Fed to calves	Mil. Lbs.	**63**	55	65	62	62
Used by farm household	Mil. Lbs.	**25**	25	25	27	29
MARKETINGS						
Milk Marketed by Producers						
Sold to plants and dealers						
Whole milk sold[1]	Mil. Lbs.	**4,995**	4,870	4,715	4,675	4,625
Percent fluid grade	Percent	**96**	95	95	95	95
Price per 100 pounds	Dollars	**13.80**	13.20	12.00	10.50	9.65
Cash receipts	1,000 Dol.	**689,310**	642,840	565,800	490,875	446,313
Cream sold	1,000 Lbs.	**NA**	NA	NA	113	716
Price per pound fat	Dollars	**NA**	NA	NA	.90	1.05
Cash receipts	1,000 Dol.	**NA**	NA	NA	102	752
Sold Directly to Consumers						
Quantity	1,000 Qts.	**9,302**	9,302	11,628	12,093	12,093
Price per quart	Dollars	**50**	.50	.50	.47	.43
Cash receipts	1,000 Dol.	**4,651**	4,651	5,814	5,684	5,200
Total Marketings						
Milk utilized	Mil. Lbs.	**5,015**	4,890	4,740	4,704	4,670
Price per 100 pounds of milk	Dollars	**13.84**	13.24	12.06	10.56	9.68
Price per pound milkfat	Dollars	**3.80**	3.61	3.29	2.86	2.62
Total cash receipts	1,000 Dol.	**693,961**	647,491	571,614	496,661	452,265
VALUE						
Value of milk used where produced[2]	1,000 Dol.	**12,294**	10,537	10,884	9,480	8,600
TOTAL VALUE OF MILK PRODUCED	1,000 Dol.	**706,255**	658,028	582,498	506,141	460,865

[1] Beginning in 1979 includes the equivalent amounts of milk for cream sold to plants and dealers.
[2] Includes value of milk fed to calves and milk used by farm household.

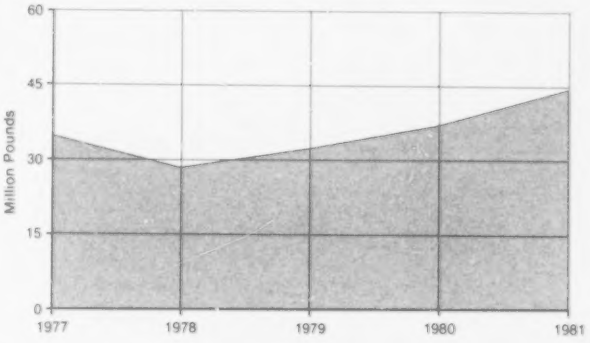
Milk Products

A large portion of the milk produced by Michigan dairy herds is utilized in the manufacture of dairy products, such as butter, cheese, ice cream and various items derived from skim milk. Michigan's 64 dairy plants are a vital marketing channel for the State's milk production. In addition related industries provide many jobs, thus contributing to the overall State economy. In 1981, 1.85 billion pounds of whole milk equivalent was used in the manufacture of dairy products in Michigan, an increase of 4 percent from the previous year. Over half of this whole milk equivalent was used to make butter, Michigan's most important manufactured dairy product.

Michigan butter production increased for the third consecutive year. A total of 43.8 million pounds were produced in 1981, up 19 percent from 1980. Ice cream production at 32 million gallons was down 13 percent from 1980. Ice milk output increased 9 percent to 11.5 million gallons. American cheese declined 14 percent to 21.8 million pounds, however it still accounts for 60 percent of Michigan's cheese output. Total cheese production increased slightly due to a large increase in Italian cheeses. Curd and creamed cottage cheese production declined.

Nationally, manufactured dairy products used nearly 60 percent of all milk marketed during 1981. The amount of whole milk used for manufacturing products was up 6 percent from the previous year. Michigan ranks in the top ten states in the production of butter, cottage cheese, dry milk, ice cream, and condensed skim milk.

Creamery Butter Production



Creamery Butter Production

MONTH	1981	1980	1979
	1,000 Pounds		
January	**3,043**	3,120	2,463
February	**3,265**	3,122	2,540
March	**3,998**	2,680	2,817
April	**4,438**	4,217	3,340
May	**4,558**	4,559	3,569
June	**3,694**	3,759	2,950
July	**2,214**	2,632	2,055
August	**2,810**	2,135	2,052
September	**3,345**	2,090	1,861
October	**4,641**	3,425	3,019
November	**3,287**	1,929	2,356
December	**4,497**	3,041	2,815
Annual	**43,790**	36,709	31,837

Ice Cream Production

MONTH	1981	1980	1979
	1,000 Gallons		
January	**1,975**	2,807	2,381
February	**2,184**	2,868	2,320
March	**2,659**	3,129	2,773
April	**2,724**	3,137	2,660
May	**2,698**	3,653	3,175
June	**3,440**	3,754	3,341
July	**3,489**	3,616	3,355
August	**3,149**	3,338	3,333
September	**2,888**	2,959	2,786
October	**2,430**	3,186	2,657
November	**2,145**	2,021	2,130
December	**2,265**	2,169	2,157
Annual	**32,046**	36,637	33,068

Ice Milk Production

MONTH	1981	1980	1979
	1,000 Gallons		
January	**986**	594	554
February	**622**	608	653
March	**826**	693	1,078
April	**984**	928	1,012
May	**1,254**	1,166	1,309
June	**1,450**	1,255	1,382
July	**1,456**	1,452	1,355
August	**1,331**	1,273	1,372
September	**867**	911	918
October	**690**	670	780
November	**548**	512	604
December	**529**	562	530
Annual	**11,543**	10,624	11,547

Milk Sherbet Production

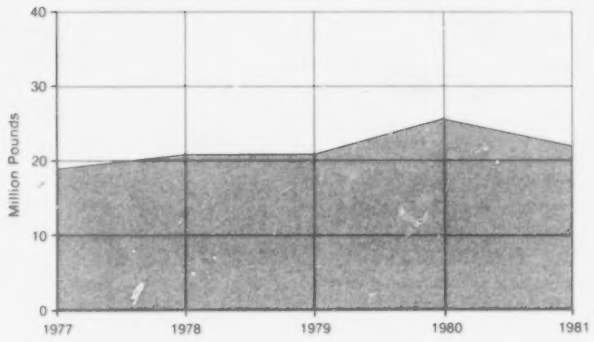
MONTH	1981	1980	1979
	1,000 Gallons		
January	**96**	108	82
February	**113**	125	86
March	**139**	119	124
April	**150**	150	145
May	**184**	160	169
June	**239**	184	186
July	**251**	185	167
August	**182**	170	185
September	**135**	138	114
October	**118**	107	106
November	**97**	92	98
December	**113**	106	102
Annual	**1,817**	1,644	1,564

American Cheese Production[1]

MONTH	1981	1980	1979
	1,000 Pounds		
January	**1,899**	1,804	1,409
February	**1,690**	1,733	1,108
March	**1,898**	1,950	1,573
April	**1,927**	1,991	1,670
May	**2,009**	2,492	1,997
June	**2,034**	2,521	2,032
July	**1,784**	2,873	2,018
August	**1,827**	2,078	1,929
September	**1,761**	1,836	2,117
October	**1,727**	1,956	1,729
November	**1,626**	2,059	1,521
December	**1,623**	1,995	1,725
Annual	**21,805**	25,288	20,828

[1] Includes American Cheddar, Colby, Washed or Stirred Curd, Monterey and Jack.

American Cheese Production



Curd Cottage Cheese Production

MONTH	1981	1980	1979
	1,000 Pounds		
January	**1,956**	2,328	2,699
February	**1,739**	2,082	2,481
March	**2,032**	2,352	2,995
April	**2,060**	2,056	2,897
May	**2,021**	2,186	2,927
June	**1,897**	2,036	2,911
July	**2,152**	2,228	2,541
August	**1,728**	1,911	2,443
September	**1,659**	1,934	2,247
October	**1,850**	1,951	2,323
November	**1,788**	1,830	2,132
December	**2,054**	1,786	2,135
Annual	**22,936**	24,680	30,731

Creamed Cottage Cheese Production

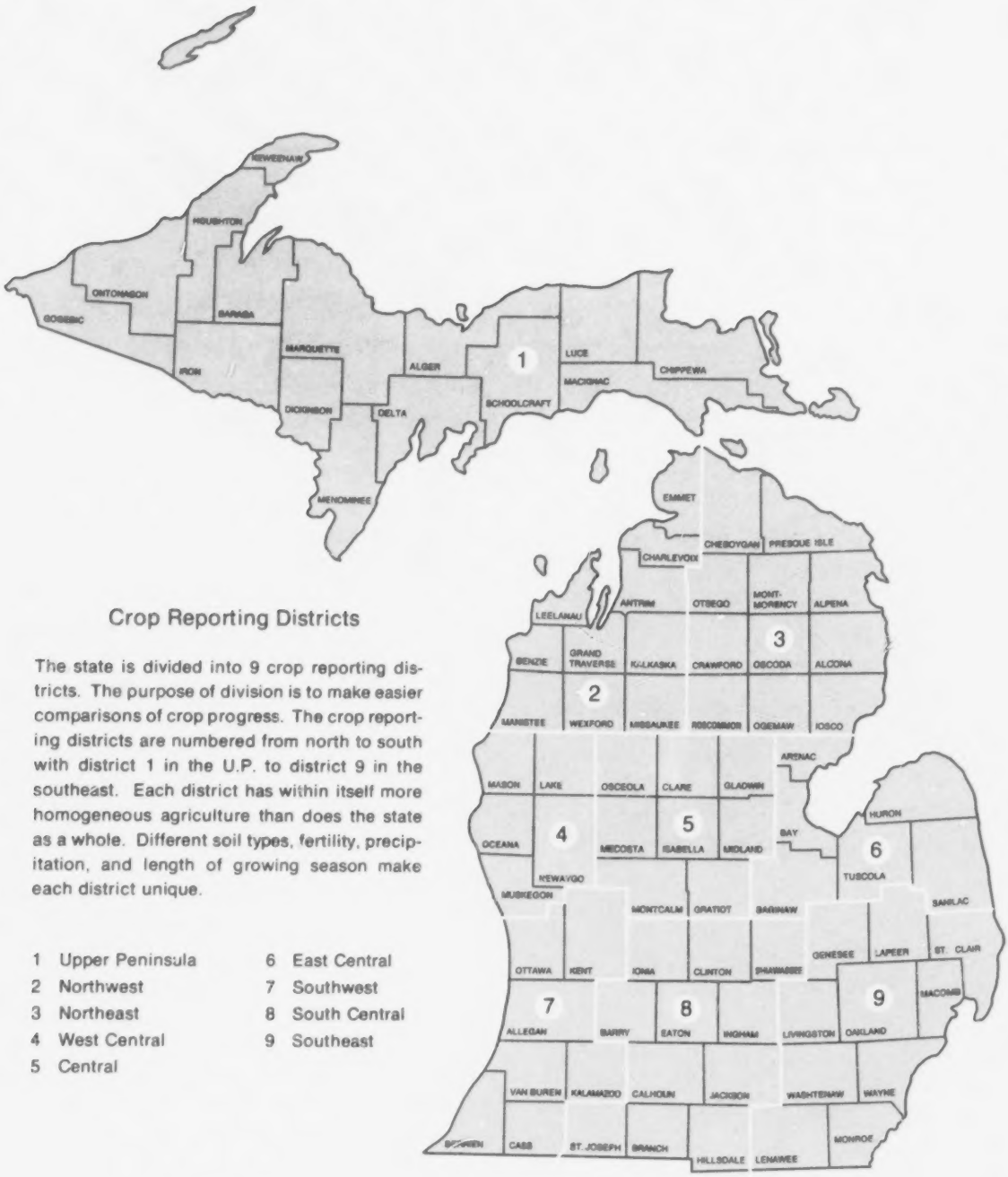
MONTH	1981	1980	1979
	1,000 Pounds		
January	**3,247**	3,819	4,154
February	**2,890**	3,474	3,847
March	**3,418**	3,902	4,385
April	**3,478**	3,475	3,997
May	**3,514**	3,685	4,326
June	**3,182**	3,492	4,382
July	**3,771**	3,912	4,593
August	**2,990**	3,322	4,419
September	**2,807**	3,398	3,957
October	**3,205**	3,329	4,207
November	**2,916**	3,058	3,672
December	**2,890**	3,049	3,084
Annual	**38,308**	41,915	49,023

Total Cheese Production[1]

MONTH	1981	1980	1979
	1,000 Pounds		
January	**2,975**	2,593	2,179
February	**2,687**	2,737	1,805
March	**3,110**	2,993	2,504
April	**2,937**	2,878	2,553
May	**3,315**	3,149	2,928
June	**3,438**	3,185	2,964
July	**3,049**	3,221	2,924
August	**3,896**	3,030	2,858
September	**2,854**	2,802	3,021
October	**2,735**	2,940	2,898
November	**2,719**	2,819	2,320
December	**2,580**	2,996	2,636
Annual	**36,395**	35,343	31,590

[1] Includes American Cheeses, Muenster, Brick, Mozzarella and other Italian Cheeses, Cream Cheese, and Farmer Cheese. Excludes Cottage Cheeses.

County Estimates



Crop Reporting Districts

The state is divided into 9 crop reporting districts. The purpose of division is to make easier comparisons of crop progress. The crop reporting districts are numbered from north to south with district 1 in the U.P. to district 9 in the southeast. Each district has within itself more homogeneous agriculture than does the state as a whole. Different soil types, fertility, precipitation, and length of growing season make each district unique.

1 Upper Peninsula
2 Northwest
3 Northeast
4 West Central
5 Central
6 East Central
7 Southwest
8 South Central
9 Southeast

Cattle and Sheep: January 1, 1982[1/]

DISTRICT AND COUNTY	Rank[2] All Cattle	Rank[2] All Sheep	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	Cattle on Feed	All Sheep and Lambs
					Head			
Alger			3,800	1,800	800	1,000	--	350
Baraga			2,300	1,400	600	800	--	--
Chippewa			10,500	5,100	2,700	2,400	--	1,200
Delta			11,500	6,700	2,700	4,000	--	350
Dickinson			3,700	1,900	1,000	900	--	--
Gogebic			1,400	800	200	600	--	--
Houghton			3,900	2,100	1,300	800	--	200
Iron			2,600	1,600	300	1,300	--	800
Keweenaw			--	--	--	--	--	--
Luce			1,500	400	--	400	--	--
Mackinac			4,300	2,000	1,100	900	--	50
Marquette			2,500	1,300	700	600	--	50
Menominee			23,500	11,300	8,500	2,800	100	150
Ontonagon			5,000	3,000	800	2,200	--	350
Schoolcraft			3,000	1,600	300	1,300	--	--
UPPER PENINSULA (1)			79,500	41,000	21,000	20,000	300	3,500
Antrim			8,500	3,500	1,700	1,800	800	200
Benzie			1,700	700	100	600	400	150
Charlevoix			6,900	3,000	1,500	1,500	200	200
Emmet			7,400	3,600	1,200	2,400	--	100
Grand Traverse			6,000	2,300	1,100	1,200	150	50
Kalkaska			1,600	800	500	300	--	50
Leelanau			6,800	1,600	800	800	--	100
Manistee			3,300	1,900	300	1,600	300	300
Missaukee			22,500	11,200	8,100	3,100	100	800
Wexford			4,800	2,200	1,500	700	--	150
NORTHWEST (2)			69,500	30,800	16,800	14,000	3,800	2,100
Alcona			7,400	4,800	1,100	3,700	100	800
Alpena			10,500	5,500	2,800	2,700	150	400
Cheboygan			6,400	3,900	1,300	2,600	--	500
Crawford			100	--	--	--	--	--
Iosco			10,000	5,200	1,200	4,000	1,800	400
Montmorency			3,500	2,200	1,400	800	--	400
Ogemaw			14,000	6,000	4,200	1,800	300	600
Oscoda			3,200	1,300	900	400	--	400
Otsego			3,500	2,100	600	1,500	--	50
Presque Isle			12,000	7,100	2,500	4,600	300	50
Roscommon			400	400	--	400	--	--
NORTHEAST (3)			71,000	38,500	16,000	22,500	2,800	3,600
Lake			2,300	1,300	500	800	--	150
Mason			12,000	4,800	3,300	1,500	1,700	1,000
Muskegon			14,000	5,400	4,200	1,200	1,500	550
Newaygo			21,500	10,300	7,900	2,400	300	2,900
Oceana			13,700	5,400	2,800	2,600	1,600	600
WEST CENTRAL (4)			63,500	27,200	18,700	8,500	5,100	5,200
Clare			13,000	6,000	2,700	3,300	1,000	1,600
Gladwin			11,000	5,500	1,800	3,700	250	1,600
Gratiot			32,000	10,100	7,200	2,900	7,500	1,700

Cattle and Sheep: January 1, 1982[1/]

DISTRICT AND COUNTY	Rank[2] All Cattle	Rank[2] All Sheep	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	Cattle on Feed	All Sheep and Lambs
					Head			
Isabella	9		38,000	14,100	10,800	3,300	4,500	500
Mecosta			17,500	8,200	5,000	3,200	--	700
Midland			8,000	2,200	800	1,400	200	400
Montcalm			24,500	11,900	9,700	2,200	400	900
Osceola			22,500	11,500	7,500	4,000	--	900
CENTRAL (5)			166,500	69,500	45,500	24,000	17,000	8,300
Arenac			11,000	4,300	3,400	900	250	100
Bay			5,800	2,400	1,600	800	250	100
Huron	1		85,000	25,500	19,300	6,200	23,500	500
Saginaw			18,500	7,200	5,400	1,800	900	2,000
Sanilac	2		81,700	34,900	30,500	4,400	2,000	1,200
Tuscola			28,000	10,700	7,800	2,900	1,100	800
EAST CENTRAL (6)			230,000	85,000	68,000	17,000	28,000	4,700
Allegan	3		52,500	20,700	15,900	4,800	3,900	2,500
Berrien			9,700	4,900	2,400	2,500	500	400
Cass			18,000	9,200	3,100	6,100	1,100	2,500
Kalamazoo			22,000	6,700	3,800	2,900	6,000	2,600
Kent	6		43,300	20,500	13,700	6,800	2,000	1,200
Ottawa	4		43,800	19,700	14,200	5,500	2,700	700
Van Buren			15,700	5,800	2,900	2,900	2,800	400
SOUTHWEST (7)			205,000	87,500	56,000	31,500	19,000	10,300
Barry			31,000	13,600	8,800	4,800	1,400	2,900
Branch		6	26,500	9,600	6,000	3,600	4,400	4,600
Calhoun		9	35,000	13,900	7,300	6,600	3,500	4,000
Clinton	7	5	43,000	17,300	14,500	2,800	3,500	4,900
Eaton		4	24,500	12,100	5,800	6,300	1,600	5,600
Hillsdale		6	35,700	15,600	11,000	4,600	1,800	4,600
Ingham		8	33,000	14,500	10,500	4,000	1,300	4,200
Ionia	5		43,500	19,200	14,000	5,200	1,600	2,400
Jackson	8	2	40,500	16,500	8,400	8,100	8,000	8,600
St. Joseph			21,500	8,100	4,700	3,400	1,300	2,800
Shiawassee			30,800	13,600	11,000	2,600	1,600	2,200
SOUTH CENTRAL (8)			365,000	154,000	102,000	52,000	30,000	46,800
Genesee			18,500	6,600	3,500	3,100	4,400	1,400
Lapeer	10		37,500	14,200	10,500	3,700	5,000	1,600
Lenawee		3	35,500	10,900	8,400	2,500	6,500	7,100
Livingston		10	23,200	10,300	7,400	2,900	2,600	3,200
Macomb			11,000	5,000	3,300	1,700	--	700
Monroe			10,200	1,900	1,500	400	2,600	1,300
Oakland			7,000	3,400	1,400	2,000	400	600
St. Clair			24,700	11,400	7,200	4,200	2,800	500
Washtenaw		1	31,700	12,300	8,600	3,700	3,500	29,000
Wayne			700	500	200	300	100	100
SOUTHEAST (9)			200,000	76,500	52,000	24,500	29,000	45,500
STATE			1,450,000	610,000	396,000	214,000	135,000	130,000

1/ Some county estimates not shown because of small numbers or to avoid disclosing individual operators.

2/ Top ten county inventories.

Cattle and Sheep: January 1, 1981[1/]

DISTRICT AND COUNTY	Rank[2] All Cattle	Rank[2] All Sheep	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	Cattle on Feed	All Sheep and Lambs
					Head			
Alger			3,500	1,500	800	700	--	150
Baraga			2,100	1,000	500	500	--	--
Chippewa			9,200	4,300	2,700	1,600	--	1,200
Delta			10,400	5,400	2,700	2,700	--	250
Dickinson			3,400	1,700	1,100	600	--	--
Gogebic			1,400	600	200	400	--	--
Houghton			3,600	1,800	1,300	500	--	900
Iron			2,400	1,200	300	900	--	800
Keweenaw			--	--	--	--	--	--
Luce			1,500	300	--	300	--	--
Mackinac			4,000	1,800	1,200	600	--	50
Marquette			2,200	1,200	800	400	--	50
Menominee			21,500	10,000	8,100	1,900	100	100
Ontonagon			4,500	2,300	800	1,500	--	300
Schoolcraft			2,800	1,100	200	900	--	--
UPPER PENINSULA (1)			72,500	34,200	20,700	13,500	300	3,800
Antrim			7,700	3,000	1,800	1,200	1,000	100
Benzie			1,700	600	200	400	500	100
Charlevoix			6,300	2,600	1,600	1,000	300	150
Emmet			6,800	2,900	1,300	1,600	--	100
Grand Traverse			5,500	1,800	1,000	800	200	50
Kalkaska			1,600	700	500	200	--	50
Leelanau			6,200	1,600	1,000	600	--	150
Manistee			3,300	1,300	300	1,000	250	350
Missaukee			21,000	9,800	7,800	2,000	100	600
Wexford			4,400	2,000	1,500	500	--	150
NORTHWEST (2)			64,500	26,300	17,000	9,300	3,900	1,800
Alcona			6,800	3,300	900	2,400	--	800
Alpena			9,500	4,400	2,700	1,700	150	400
Cheboygan			5,900	3,000	1,400	1,600	--	450
Crawford			100	--	--	--	--	--
Iosco			9,500	3,700	1,200	2,500	2,400	500
Montmorency			3,500	1,600	1,100	500	--	400
Ogemaw			12,800	5,200	4,000	1,200	300	500
Oscoda			3,000	1,300	1,000	300	--	350
Otsego			3,500	1,700	700	1,000	--	50
Presque Isle			11,000	5,400	2,400	3,000	400	50
Roscommon			400	300	--	300	--	--
NORTHEAST (3)			66,000	29,900	15,400	14,500	3,400	3,500
Lake			2,100	1,000	500	500	--	150
Mason			10,700	4,200	3,300	900	2,300	1,300
Muskegon			13,000	4,700	3,900	800	1,800	350
Newaygo			20,000	9,300	7,700	1,600	350	1,200
Oceana			12,200	4,200	2,500	1,700	1,400	500
WEST CENTRAL (4)			58,000	23,400	17,900	5,500	5,900	3,500
Clare			12,000	4,800	2,700	2,100	1,200	1,800
Gladwin			10,000	4,200	1,800	2,400	300	1,200
Gratiot			29,700	9,200	7,300	1,900	8,500	1,400

Cattle and Sheep: January 1, 1981[1/]

DISTRICT AND COUNTY	Rank[2] All Cattle	Rank[2] All Sheep	All Cattle and Calves	All Cows that have Calved	Milk Cows	Beef Cows	Cattle on Feed	All Sheep and Lambs
					Head			
Isabella	10		35,000	12,500	10,400	2,100	5,500	500
Mecosta			16,500	7,200	5,100	2,100	--	700
Midland			7,600	1,700	800	900	100	500
Montcalm			22,500	10,800	9,400	1,400	600	1,000
Osceola			20,700	9,900	7,300	2,600	300	900
CENTRAL (5)			154,000	60,300	44,800	15,500	19,500	8,000
Arenac			10,400	4,000	3,400	600	200	50
Bay			5,300	2,100	1,600	500	300	150
Huron	1		78,800	23,100	19,000	4,100	26,000	500
Saginaw			17,000	6,600	5,400	1,200	1,000	1,800
Sanilac	2		75,000	32,900	30,000	2,900	3,000	1,100
Tuscola			25,500	9,500	7,600	1,900	1,500	1,000
EAST CENTRAL (6)			212,000	78,200	67,000	11,200	32,000	4,600
Allegan	3		49,000	18,900	15,700	3,200	4,900	2,600
Berrien			9,000	3,900	2,300	1,600	800	500
Cass			17,000	7,000	3,100	3,900	1,400	2,500
Kalamazoo			20,500	5,600	3,700	1,900	7,400	2,300
Kent	5		40,700	17,900	13,500	4,400	2,500	1,300
Ottawa	4		41,000	17,600	14,000	3,600	3,500	600
Van Buren			14,800	4,800	2,900	1,900	3,500	400
SOUTHWEST (7)			192,000	75,700	55,200	20,500	24,000	10,200
Barry			28,300	11,500	8,400	3,100	1,700	2,900
Branch		5	24,000	8,200	5,800	2,400	5,200	4,700
Calhoun		9	32,000	11,500	7,300	4,200	4,200	4,000
Clinton	7	5	39,300	15,900	14,000	1,900	4,200	4,700
Eaton		4	22,500	9,800	5,700	4,100	1,800	5,600
Hillsdale		7	32,800	13,700	10,700	3,000	2,400	4,300
Ingham		7	30,300	12,900	10,300	2,600	1,800	4,300
Ionia	6		39,800	17,000	13,600	3,400	1,900	2,500
Jackson	8	2	37,700	13,600	8,300	5,300	9,000	8,000
St. Joseph			19,800	7,200	4,900	2,300	1,800	2,800
Shiawassee			28,500	12,700	11,000	1,700	2,000	1,800
SOUTH CENTRAL (8)			335,000	134,000	100,000	34,000	36,000	45,600
Genesee			17,200	5,500	3,500	2,000	5,400	1,400
Lapeer	9		35,500	13,100	10,700	2,400	5,800	1,600
Lenawee		3	32,500	9,900	8,200	1,700	8,300	6,800
Livingston		10	21,500	9,100	7,200	1,900	3,200	3,000
Macomb			10,500	4,500	3,400	1,100	--	700
Monroe			9,000	1,900	1,600	300	3,000	1,000
Oakland			6,600	2,800	1,500	1,300	500	700
St. Clair			23,000	9,700	7,000	2,700	3,500	600
Washtenaw		1	29,500	11,100	8,700	2,400	4,100	27,000
Wayne			700	400	200	200	100	200
SOUTHEAST (9)			186,000	68,000	52,000	16,000	35,000	43,000
STATE			1,340,000	530,000	390,000	140,000	160,000	124,000

1/ Some county estimates not shown because of small numbers or to avoid disclosing individual operators.

2/ Top ten county inventories.

Hogs and Pigs, Chickens: December 1, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2] All Hogs	Rank[2] HP LA	All Hogs and Pigs 1981	All Hogs and Pigs 1980	Sows Farrowed 1981	Sows Farrowed 1980	Hens and Pullets of Laying Age 1981	Hens and Pullets of Laying Age 1980
			Head				*Birds*	
Alger			–	100	–	–	1,500	1,000
Baraga			–	–	–	–	–	–
Chippewa			200	400	100	150	70,000	67,500
Delta			600	700	150	200	2,000	3,000
Dickinson			150	200	–	–	1,000	1,000
Gogebic			–	–	–	–	–	–
Houghton			–	–	–	–	10,000	10,000
Iron			–	–	–	–	2,100	2,000
Keweenaw			–	–	–	–	–	–
Luce			100	150	–	–	7,000	7,000
Mackinac			–	–	–	–	1,000	1,000
Marquette			150	300	–	–	1,000	1,000
Menominee			600	700	250	300	20,800	18,000
Ontonagon			–	100	–	–	–	–
Schoolcraft			100	150	–	–	–	–
UPPER PENINSULA (1)			2,200	3,000	700	1,000	117,000	112,000
Antrim			500	600	150	200	41,500	44,500
Benzie			600	900	200	300	–	–
Charlevoix			300	350	–	100	25,000	25,000
Emmet			100	150	–	–	1,000	1,000
Grand Traverse			1,200	1,300	300	350	17,000	17,000
Kalkaska			1,400	1,700	350	450	3,000	5,000
Leelanau			700	900	200	300	8,000	6,000
Manistee			400	500	100	150	3,000	4,000
Missaukee			2,300	2,800	600	800	60,000	65,000
Wexford			1,000	1,300	300	400	3,000	5,000
NORTHWEST (2)			8,500	10,500	2,300	3,100	162,000	173,000
Alcona			1,000	1,200	250	350	29,000	29,400
Alpena			1,400	1,800	350	450	22,000	25,000
Cheboygan			500	600	100	200	1,400	1,400
Crawford			–	–	–	–	–	–
Iosco			2,500	3,100	550	650	1,000	1,000
Montmorency			–	100	–	–	–	1,000
Ogemaw			300	400	100	150	1,400	1,500
Oscoda			100	200	–	–	1,000	1,000
Otsego			–	100	–	–	–	1,000
Presque Isle			300	400	–	100	3,500	4,000
Roscommon			–	–	–	–	–	1,000
NORTHEAST (3)			6,300	8,000	1,500	2,000	62,000	66,500
Lake			100	200	–	–	2,500	2,500
Mason			600	900	100	150	20,000	23,500
Muskegon			1,800	2,500	500	700	20,000	24,000
Newaygo		7	4,000	5,400	1,200	1,700	160,000	170,000
Oceana			2,800	3,500	700	900	50,500	47,000
WEST CENTRAL (4)			9,300	12,500	2,500	3,500	253,000	267,000
Clare			5,500	6,300	1,200	1,600	1,500	1,500
Gladwin			1,500	1,900	300	400	3,000	3,000
Gratiot		6	14,000	16,500	2,900	3,600	200,000	225,000

Hogs and Pigs, Chickens: December 1, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2] All Hogs	Rank[2] HP LA	All Hogs and Pigs		Sows Farrowed		Hens and Pullets of Laying Age	
			1981	1980	1981	1980	1981	1980
			Head				*Birds*	
Isabella			13,500	16,000	3,000	3,700	75,000	95,000
Mecosta			2,000	2,500	500	600	47,500	47,500
Midland			3,000	3,800	800	1,000	2,000	2,000
Montcalm			6,000	8,000	1,500	1,800	75,000	70,000
Osceola			3,500	4,000	800	1,000	20,000	22,000
CENTRAL (5)			49,000	59,000	11,000	13,700	424,000	466,000
Arenac			3,500	4,000	800	1,100	10,000	10,000
Bay			1,800	2,000	400	600	9,000	10,000
Huron		2	18,500	22,000	4,000	4,600	950,000	1,000,000
Saginaw			6,800	8,000	1,300	1,600	37,000	35,000
Sanilac			7,400	9,000	2,200	2,500	20,000	20,000
Tuscola		5	17,000	17,000	3,300	4,000	400,000	425,000
EAST CENTRAL (6)			55,000	62,000	12,000	14,400	1,426,000	1,500,000
Allegan	2	3	50,000	60,000	10,500	12,500	880,000	765,000
Berrien		8	20,000	20,000	3,900	5,100	150,000	145,000
Cass	1		127,000	147,000	32,000	39,500	10,000	10,000
Kalamazoo	10		22,000	25,000	4,800	6,200	90,000	100,000
Kent		10	10,000	13,000	2,800	3,800	133,000	155,000
Ottawa	3	1	42,000	51,000	9,000	11,000	975,000	900,000
Van Buren	9	9	24,000	27,000	6,000	7,900	135,000	145,000
SOUTHWEST (7)			295,000	343,000	69,000	86,000	2,373,000	2,220,000
Barry			8,000	11,000	2,200	3,000	85,000	97,000
Branch	5		28,000	37,000	6,400	9,000	20,000	20,000
Calhoun	8		25,000	30,000	5,500	7,700	100,000	101,000
Clinton			16,000	18,000	4,000	5,400	30,000	32,000
Eaton			12,000	15,000	2,500	3,500	35,000	40,000
Hillsdale	5		28,000	32,000	6,200	7,200	90,000	90,000
Ingham			20,000	22,000	4,000	5,400	53,000	54,000
Ionia		4	19,000	21,000	3,800	5,200	500,000	540,000
Jackson			8,000	9,000	2,300	3,000	15,000	19,000
St. Joseph	4		29,000	38,000	7,500	10,400	95,000	100,000
Shiawassee			4,000	6,000	1,600	2,200	55,000	60,000
SOUTH CENTRAL (8)			197,000	239,000	46,000	62,000	1,078,000	1,153,000
Genesee			4,000	5,500	1,200	1,500	40,000	43,000
Lapeer			7,500	9,000	1,700	2,200	8,000	7,000
Lenawee	7		27,000	39,500	6,000	8,000	45,500	65,000
Livingston			3,500	5,500	1,100	1,500	6,500	6,500
Macomb			2,000	2,500	400	600	15,000	19,000
Monroe			9,000	12,000	2,000	2,500	100,000	105,000
Oakland			1,500	2,000	400	600	20,000	22,000
St. Clair			3,000	4,000	800	1,100	95,000	100,000
Washtenaw			9,500	12,000	2,200	3,000	30,000	30,000
Wayne			700	1,000	200	300	45,000	45,000
SOUTHEAST (9)			67,700	93,000	16,000	21,300	405,000	442,500
STATE			690,000	830,000	161,000	207,000	6,300,000	6,400,000

1/ Estimates not published for counties with small inventories.

2/ 1981 top ten county inventories.

Milk: Cow Number, Production Per Cow, Total Production, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981			1980		
		Milk Cows	Milk per Cow	Total Milk Produced	Milk Cows	Milk per Cow	Total Milk Produced
			Pounds	*1,000 Pounds*		*Pounds*	*1,000 Pounds*
Alger		800	12,625	10,100	800	12,295	9,800
Baraga		500	13,273	6,600	600	12,927	7,800
Chippewa		2,700	11,717	31,600	2,700	11,411	30,800
Delta		2,700	11,815	31,900	2,700	11,529	31,100
Dickinson		1,100	13,804	15,200	1,100	13,444	14,800
Gogebic		200	12,389	2,500	200	12,066	2,400
Houghton		1,300	12,137	15,800	1,300	11,820	15,400
Iron		300	13,804	4,100	300	13,444	4,000
Keweenaw		–	–	–	–	–	–
Luce		–	–	–	–	–	–
Mackinac		1,200	13,226	15,900	1,200	12,881	15,500
Marquette		700	11,859	8,300	800	11,549	9,200
Menominee		8,300	11,785	97,800	8,200	11,490	94,200
Ontonagon		800	13,141	10,500	800	12,798	10,200
Schoolcraft		200	13,804	2,800	100	13,444	1,300
UPPER PENINSULA (1)		20,800	12,168	253,100	20,800	11,850	246,500
Antrim		1,700	12,995	22,100	1,800	12,618	22,700
Benzie		200	12,730	2,500	200	12,360	2,500
Charlevoix		1,500	12,730	19,100	1,600	12,360	19,800
Emmet		1,200	12,403	14,900	1,300	12,043	15,700
Grand Traverse		1,100	13,818	15,200	1,000	13,600	13,600
Kalkaska		500	11,205	5,600	500	10,880	5,400
Leelanau		900	13,826	12,400	1,000	13,425	13,400
Manistee		300	11,689	3,500	300	11,350	3,400
Missaukee		8,000	14,393	115,100	7,900	13,975	110,400
Wexford		1,500	12,199	18,300	1,500	11,845	17,800
NORTHWEST (2)		16,900	13,533	228,700	17,100	13,140	224,700
Alcona		1,000	13,760	13,800	900	13,222	11,900
Alpena		2,800	13,893	38,900	2,800	13,321	37,300
Cheboygan		1,300	13,685	17,800	1,400	13,150	18,400
Crawford		–	–	–	–	–	–
Iosco		1,200	13,500	16,200	1,200	12,925	15,500
Montmorency		1,300	12,176	15,800	1,100	11,700	12,900
Ogemaw		4,100	12,683	52,000	4,000	12,175	48,700
Oscoda		900	13,774	12,400	1,000	13,235	13,200
Otsego		600	13,000	7,800	700	12,408	8,700
Presque Isle		2,500	12,488	31,200	2,500	12,000	30,000
Roscommon		–	–	–	–	–	–
NORTHEAST (3)		15,700	13,115	205,900	15,600	12,602	196,600
Lake		500	12,949	6,500	500	12,410	6,200
Mason		3,300	13,416	44,300	3,500	12,857	45,000
Muskegon		4,100	12,512	51,300	4,100	11,991	49,200
Newaygo		7,800	13,012	101,500	7,800	12,463	97,200
Oceana		2,600	13,104	34,100	2,700	12,558	33,900
WEST CENTRAL (4)		18,300	12,989	237,700	18,600	12,448	231,500
Clare		2,700	13,523	36,500	2,800	13,023	36,500
Gladwin		1,800	13,409	24,100	1,900	12,913	24,500
Gratiot		7,300	13,685	99,900	7,300	13,178	96,200

Milk: Cow Numbers, Production Per Cow, Total Production, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981			1980		
		Milk Cows	Milk per Cow	Total Milk Produced	Milk Cows	Milk per Cow	Total Milk Produced
			Pounds	*1,000 Pounds*		*Pounds*	*1,000 Pounds*
Isabella		10,600	12,453	132,000	10,500	11,975	125,700
Mecosta		5,000	13,842	69,200	5,100	13,330	68,000
Midland		800	12,864	10,300	900	12,388	11,100
Montcalm		9,600	12,458	119,600	9,400	12,000	112,800
Osceola		7,400	13,040	96,500	7,500	12,550	94,100
CENTRAL (5)		45,200	13,011	588,100	45,400	12,530	568,900
Arenac		3,400	11,800	40,100	3,600	11,450	41,200
Bay		1,600	13,055	20,900	1,700	12,667	21,500
Huron	2	19,200	13,410	257,500	19,300	13,020	251,300
Saginaw		5,400	12,926	69,800	5,600	12,565	70,400
Sanilac	1	30,200	14,145	427,200	30,300	13,729	416,000
Tuscola		7,700	12,688	97,700	7,700	12,325	94,900
EAST CENTRAL (6)		67,500	13,529	913,200	68,200	13,127	895,300
Allegan	3	15,800	12,456	196,800	15,700	12,140	190,600
Berrien		2,300	12,435	28,600	2,300	12,142	27,900
Cass		3,100	11,241	34,800	3,200	10,950	35,000
Kalamazoo		3,800	12,947	49,200	3,900	12,625	49,200
Kent	6	13,600	13,238	180,000	13,500	12,895	174,100
Ottawa	5	14,100	13,120	185,000	13,900	12,780	177,600
Van Buren		2,900	11,621	33,700	2,900	11,350	32,900
SOUTHWEST (7)		55,600	12,736	708,100	55,400	12,406	687,300
Barry		8,600	12,814	110,200	8,300	12,458	103,400
Branch		5,900	12,390	73,100	5,900	12,046	71,100
Calhoun		7,300	12,912	94,300	7,500	12,563	94,200
Clinton	4	14,200	13,415	190,500	14,400	13,048	187,900
Eaton		5,800	11,759	68,200	5,900	11,425	67,400
Hillsdale	9	10,800	13,033	140,800	10,700	12,680	135,700
Ingham	10	10,400	13,054	135,800	10,400	12,712	132,200
Ionia	7	13,800	12,394	171,000	13,600	12,059	164,000
Jackson		8,400	12,266	103,000	8,300	11,934	99,100
St. Joseph		4,800	12,536	60,200	5,000	12,197	61,000
Shiawassee		11,000	12,308	135,400	11,000	11,982	131,800
SOUTH CENTRAL (8)		101,000	12,698	1,282,500	101,000	12,354	1,247,300
Genesee		3,500	13,788	48,300	3,500	13,272	46,500
Lapeer	8	10,600	13,774	146,000	11,000	13,250	145,800
Lenawee		8,300	13,657	113,400	8,200	13,146	107,800
Livingston		7,300	12,756	93,100	7,300	12,278	89,600
Macomb		3,400	13,000	44,200	3,600	12,494	45,000
Monroe		1,500	13,467	20,200	1,700	12,927	22,000
Oakland		1,400	13,143	18,400	1,500	12,617	18,900
St. Clair		7,100	12,113	86,000	7,000	11,650	81,600
Washtenaw		8,700	13,023	113,300	8,900	12,525	111,500
Wayne		200	13,967	2,800	200	13,444	2,700
SOUTHEAST (9)		52,000	13,186	685,700	52,900	12,692	671,400
STATE		393,000	12,985	5,103,000	395,000	12,582	4,970,000

1/ Estimates not published for counties with small production.

2/ 1981 top ten producing counties.

CORN: Acreage, Yield, Production, 1981[1/]

DISTRICT AND COUNTY	Rank[2]	Planted all Purposes	Grain			Silage		
			Harvested	Yield	Production	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*	*Tons*	
Alger		–	–	–	–	–	–	–
Baraga		–	–	–	–	–	–	–
Chippewa		–	–	–	–	–	–	–
Delta		3,500	1,250	75.0	93,700	2,140	14.5	31,000
Dickinson		1,200	350	80.6	28,200	820	10.0	8,200
Gogebic		–	–	–	–	–	–	–
Houghton		600	170	72.9	12,400	410	13.9	5,700
Iron		–	–	–	–	–	–	–
Keweenaw		–	–	–	–	–	–	–
Luce		–	–	–	–	–	–	–
Mackinac		600	150	84.7	12,700	420	11.9	5,000
Marquette		–	–	–	–	–	–	–
Menominee		18,000	8,400	79.0	664,000	9,470	11.0	104,000
Ontonagon		–	–	–	–	–	–	–
Schoolcraft		–	–	–	–	–	–	–
UPPER PENINSULA (1)		26,000	11,000	78.0	858,000	14,580	11.5	167,900
Antrim		7,500	5,100	70.0	357,000	2,160	12.0	25,900
Benzie		2,000	1,100	70.0	77,000	850	10.5	8,900
Charlevoix		4,800	3,000	85.0	255,000	1,640	9.0	14,800
Emmet		4,500	1,000	67.0	67,000	3,390	10.6	35,900
Grand Traverse		9,000	7,900	73.0	577,000	920	7.4	6,800
Kalkaska		2,700	2,400	80.8	194,000	240	7.9	1,900
Leelanau		4,600	2,400	74.6	179,000	2,090	10.0	20,900
Manistee		2,700	1,400	74.3	104,000	1,090	10.5	11,400
Missaukee		14,900	8,800	82.0	722,000	5,900	12.0	71,000
Wexford		6,300	5,900	72.0	425,000	270	10.0	2,700
NORTHWEST (2)		59,000	39,000	75.8	2,957,000	18,550	10.8	200,200
Alcona		3,000	2,200	85.0	187,000	710	9.0	6,400
Alpena		8,950	5,800	76.0	441,000	2,910	13.1	38,000
Cheboygan		2,000	1,400	77.1	108,000	550	10.0	5,500
Crawford		–	–	–	–	–	–	–
Iosco		11,000	7,800	100.0	780,000	2,950	13.6	40,000
Montmorency		3,100	1,300	88.5	115,000	1,720	9.0	15,500
Ogemaw		14,500	9,900	84.0	831,500	4,270	14.0	59,700
Oscoda		2,300	800	80.0	64,000	1,440	12.0	17,300
Otsego		2,600	1,300	70.0	91,000	1,230	9.5	11,700
Presque Isle		3,500	1,470	63.3	93,000	1,920	14.0	26,800
Roscommon		–	–	–	–	–	–	–
NORTHEAST (3)		51,000	32,000	84.8	2,713,000	17,720	12.5	221,100
Lake		1,900	1,200	55.0	66,000	670	9.1	6,100
Mason		21,100	16,200	61.5	997,000	4,700	11.0	51,700
Muskegon		23,000	17,200	76.0	1,307,000	5,600	11.5	64,400
Newaygo		28,000	22,700	74.2	1,684,000	5,050	10.0	50,500
Oceana		14,000	7,700	66.4	511,000	6,160	8.5	52,500
WEST CENTRAL (4)		88,000	65,000	70.2	4,565,000	22,180	10.2	225,200
Clare		12,800	9,100	71.5	651,000	3,610	9.0	32,500
Gladwin		15,000	14,000	78.0	1,092,000	900	8.6	7,700
Gratiot	8	94,000	89,600	102.5	9,184,000	3,850	14.5	56,000

CORN: Acreage, Yield, Production 1981[1/]

DISTRICT AND COUNTY	Rank[2]	Planted all Purposes	Grain			Silage		
			Harvested	Yield	Production	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*	*Tons*	
Isabella		69,000	60,900	90.0	5,481,000	7,600	14.1	107,000
Mecosta		25,500	22,600	82.0	1,853,000	2,750	13.0	35,800
Midland		24,500	22,000	105.0	2,310,000	2,350	14.0	33,000
Montcalm		76,000	69,700	94.5	6,587,000	5,830	13.0	76,000
Osceola		13,200	8,100	70.0	567,000	4,980	9.0	44,800
CENTRAL (5)		330,000	296,000	93.7	27,725,000	31,870	12.3	392,800
Arenac		23,000	21,200	103.0	2,184,000	1,560	12.1	18,800
Bay		42,000	39,400	105.5	4,157,000	2,190	14.2	31,100
Huron	1	152,000	135,200	105.1	14,215,000	15,410	15.6	240,000
Saginaw		75,000	72,600	109.4	7,940,000	1,680	14.3	24,000
Sanilac	4	126,000	115,300	103.0	11,875,000	9,400	14.4	135,000
Tuscola	2	127,000	119,300	110.0	13,123,000	6,660	15.3	102,000
EAST CENTRAL (6)		545,000	503,000	106.3	53,494,000	36,900	14.9	550,900
Allegan		103,000	92,700	88.0	8,160,000	9,190	12.0	110,000
Berrien		50,000	46,000	94.0	4,324,000	3,400	12.9	44,000
Cass		80,000	73,200	98.0	7,174,000	5,930	12.0	71,200
Kalamazoo		74,000	69,000	95.4	6,582,000	4,160	14.3	59,500
Kent		78,000	70,900	81.0	5,745,000	6,290	13.0	82,000
Ottawa		63,000	56,700	89.0	5,046,000	5,520	13.6	75,000
Van Buren		58,000	54,500	87.0	4,742,000	2,910	14.1	41,000
SOUTHWEST (7)		506,000	463,000	90.2	41,773,000	37,400	12.9	482,700
Barry		55,000	43,300	90.3	3,908,000	11,400	13.9	159,000
Branch	5	118,000	112,000	104.0	11,648,000	5,260	14.1	74,000
Calhoun	10	97,000	91,000	96.0	8,736,000	5,440	12.9	70,000
Clinton		78,000	67,500	97.0	6,546,000	10,050	14.2	143,000
Eaton		72,000	65,000	96.4	6,265,000	6,590	14.4	94,900
Hillsdale	7	110,000	99,500	96.0	9,552,000	9,840	15.0	148,000
Ingham		98,000	92,000	90.7	8,343,000	5,340	15.0	80,000
Ionia		86,000	72,700	90.2	6,560,000	12,780	13.6	174,000
Jackson	9	105,000	93,000	95.4	8,873,000	11,400	14.4	164,000
St. Joseph	6	117,000	110,000	102.0	11,220,000	6,370	14.5	92,500
Shiawassee		60,000	52,000	96.3	5,008,000	7,630	12.6	96,000
SOUTH CENTRAL (8)		996,000	898,000	96.5	86,659,000	92,100	14.1	1,295,400
Genesee		54,000	50,300	100.0	5,030,000	3,060	14.4	44,000
Lapeer		88,000	77,800	97.5	7,585,000	9,150	14.4	132,000
Lenawee	3	136,000	126,000	102.9	12,971,000	8,450	13.0	110,000
Livingston		62,000	51,800	91.0	4,714,000	9,330	13.3	124,000
Macomb		24,000	22,300	91.5	2,041,000	1,410	9.9	14,000
Monroe		74,000	71,500	104.0	7,436,000	1,560	14.6	22,800
Oakland		18,000	16,900	83.3	1,408,000	890	10.6	9,400
St. Clair		57,000	50,300	95.0	4,779,000	6,030	11.0	66,500
Washtenaw		80,000	70,500	89.8	6,332,000	8,500	11.5	97,700
Wayne		6,000	5,600	100.0	560,000	320	10.6	3,400
SOUTHEAST (9)		599,000	543,000	97.3	52,856,000	48,700	12.8	623,800
STATE		3,200,000	2,850,000	96.0	273,600,000	320,000	13.0	4,160,000

1/ Estimates not published for counties with small acreages

2/ Top ten grain producing counties.

Wheat: Acreage, Yield, Production, 1980-1981 [1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
Alger		–	–	–	–	–	–	–	–
Baraga		150	140	30.7	4,300	210	200	30.0	6,000
Chippewa		630	600	30.2	18,100	310	300	27.3	8,200
Delta		160	150	28.0	4,200	130	130	30.8	4,000
Dickinson		–	–	–	–	–	–	–	–
Gogebic		–	–	–	–	–	–	–	–
Houghton		–	–	–	–	–	–	–	–
Iron		200	190	31.6	6,000	90	90	31.1	2,800
Keweenaw		–	–	–	–	–	–	–	–
Luce		–	–	–	–	–	–	–	–
Mackinac		120	120	30.8	3,700	90	90	31.1	2,800
Marquette		–	–	–	–	–	–	–	–
Menominee		430	400	29.3	11,700	520	500	30.4	15,200
Ontonagon		100	100	30.0	3,000	120	120	30.8	3,700
Schoolcraft		110	100	32.0	3,200	170	170	31.2	5,300
UPPER PENINSULA (1)		1,900	1,800	30.1	54,200	1,640	1,600	30.0	48,000
Antrim		1,130	1,100	36.4	40,000	1,320	1,300	26.8	34,800
Benzie		90	90	36.7	3,300	110	90	28.9	2,600
Charlevoix		180	180	35.6	6,400	220	180	28.9	5,200
Emmet		310	300	33.0	9,900	280	230	28.7	6,600
Grand Traverse		1,340	1,300	37.2	48,400	1,300	1,250	37.3	46,600
Kalkaska		670	650	30.0	19,500	650	610	28.5	17,400
Leelanau		600	580	30.3	17,600	410	390	30.0	11,700
Manistee		620	600	27.0	16,200	720	700	28.3	19,800
Missaukee		930	900	43.1	38,800	1,050	1,050	39.8	41,800
Wexford		1,230	1,200	29.7	35,600	1,200	1,000	27.5	27,500
NORTHWEST (2)		7,100	6,900	34.2	235,700	7,260	6,800	31.5	214,000
Alcona		1,540	1,500	42.2	63,300	1,400	1,360	31.2	42,400
Alpena		4,500	4,400	45.9	202,000	4,200	3,600	38.1	137,000
Cheboygan		720	700	38.3	26,800	400	400	32.5	13,000
Crawford		–	–	–	–	–	–	–	–
Iosco		2,150	2,100	47.6	100,000	2,550	2,300	41.7	96,000
Montmorency		830	800	41.0	32,800	600	600	39.3	23,600
Ogemaw		1,800	1,700	51.0	86,700	1,880	1,850	39.8	73,600
Oscoda		150	150	38.7	5,800	250	170	38.2	6,500
Otsego		670	650	48.0	31,200	680	680	35.6	24,200
Presque Isle		1,540	1,500	42.2	63,300	1,200	1,200	30.2	36,200
Roscommon		100	100	44.0	4,400	40	40	37.5	1,500
NORTHEAST (3)		14,000	13,600	45.3	616,300	13,200	12,200	37.2	454,000
Lake		520	500	40.8	20,400	360	350	39.4	13,800
Mason		4,800	4,700	45.3	213,000	4,220	4,150	36.4	151,000
Muskegon		2,480	2,400	41.5	99,700	2,840	2,600	39.8	103,500
Newaygo		2,600	2,500	41.2	103,000	2,640	2,500	37.7	94,200
Oceana		2,700	2,600	44.2	115,000	2,840	2,800	39.8	111,500
WEST CENTRAL (4)		13,100	12,700	43.4	551,100	12,900	12,400	38.2	474,000
Clare		2,100	2,000	42.9	85,700	2,710	2,570	42.0	108,000
Gladwin		3,600	3,500	52.6	184,000	4,610	4,330	45.7	198,000
Gratiot	10	25,000	24,500	54.7	1,340,000	24,500	24,300	45.8	1,114,000

Wheat: Acreage, Yield, Production, 1980-1981 1/

DISTRICT AND COUNTY	Rank	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
Isabella		13,500	13,000	53.0	689,000	17,900	17,700	45.8	811,000
Mecosta		4,900	4,800	47.7	229,000	5,050	5,000	38.0	190,000
Midland		6,300	6,200	56.0	347,000	6,130	6,050	45.8	277,000
Montcalm		24,000	23,500	49.4	1,160,000	23,400	23,200	40.2	932,000
Osceola		1,600	1,500	44.0	66,000	1,900	1,850	43.2	80,000
CENTRAL (5)		81,000	79,000	51.9	4,100,700	86,200	85,000	43.6	3,710,000
Arenac		4,900	4,800	56.0	269,000	6,800	6,700	47.3	317,000
Bay		12,500	12,300	54.5	670,000	15,100	14,600	46.8	683,000
Huron	1	50,100	49,600	60.8	3,016,000	53,600	52,800	49.8	2,630,000
Saginaw	5	34,400	34,000	56.9	1,934,000	36,300	34,900	48.1	1,680,000
Sanilac	4	42,800	42,300	62.2	2,633,000	47,700	47,000	47.9	2,250,000
Tuscola	3	45,500	45,000	61.8	2,783,000	46,500	44,000	48.2	2,120,000
EAST CENTRAL (6)		190,200	188,000	60.1	11,305,000	206,000	200,000	48.4	9,680,000
Allegan		10,100	9,900	43.5	431,000	11,200	10,400	33.7	350,000
Berrien		8,400	8,300	43.9	364,000	8,020	7,900	39.2	310,000
Cass		11,600	11,400	42.2	483,000	9,820	9,700	38.1	370,000
Kalamazoo		19,600	19,500	48.3	942,000	16,700	16,500	40.0	660,000
Kent		12,000	11,800	48.6	574,000	10,500	9,100	42.3	385,000
Ottawa		6,500	6,400	42.2	270,000	6,290	6,200	33.5	208,000
Van Buren		5,100	5,000	45.8	229,000	5,270	5,200	37.9	197,000
SOUTHWEST (7)		73,300	72,300	45.5	3,293,000	67,800	65,000	38.2	2,480,000
Barry		15,100	15,000	49.0	735,000	11,400	11,200	43.4	486,000
Branch		20,100	20,000	46.0	920,000	17,300	17,000	40.8	694,000
Calhoun		25,100	25,000	44.1	1,102,000	20,900	20,600	41.4	853,000
Clinton	7	34,200	34,000	49.5	1,682,000	34,900	34,500	47.0	1,620,000
Eaton	9	28,100	28,000	50.8	1,423,000	28,000	27,600	47.5	1,310,000
Hillsdale		19,600	19,500	43.5	848,000	15,500	15,200	42.3	643,000
Ingham		23,600	23,500	44.8	1,052,000	23,100	22,800	41.4	945,000
Ionia	6	37,200	37,000	47.0	1,738,000	32,000	31,600	48.7	1,540,000
Jackson		15,200	15,000	45.3	680,000	13,200	13,000	44.4	577,000
St. Joseph		22,600	22,500	40.9	920,000	18,400	18,100	37.7	682,000
Shiawassee		29,200	29,000	44.6	1,293,000	32,300	31,400	40.1	1,260,000
SOUTH CENTRAL (8)		270,000	268,500	46.2	12,393,000	247,000	243,000	43.7	10,610,000
Genesee		17,500	17,000	46.2	786,000	22,500	20,900	45.5	951,000
Lapeer		19,200	19,000	52.0	988,000	22,200	22,000	38.2	841,000
Lenawee	2	58,700	58,300	50.2	2,926,000	46,900	46,600	45.3	2,110,000
Livingston		10,600	10,500	40.2	422,000	8,670	8,600	38.3	329,000
Macomb		5,700	5,500	48.7	268,000	7,730	7,100	45.5	323,000
Monroe	8	34,800	34,500	46.8	1,615,000	28,500	28,300	45.2	1,280,000
Oakland		4,100	4,000	45.0	180,000	4,080	3,800	36.1	137,000
St. Clair		13,600	13,500	48.7	658,000	15,000	14,500	40.6	588,000
Washtenaw		22,200	22,000	45.3	996,000	19,600	19,400	43.5	843,000
Wayne		3,000	2,900	38.6	112,000	2,820	2,800	45.7	128,000
SOUTHEAST (9)		189,400	187,200	47.8	8,951,000	178,000	174,000	43.3	7,530,000
STATE		840,000	830,000	50.0	41,500,000	820,000	800,000	44.0	35,200,000

1/ Estimates not published for counties with small acreages.

2/ 1981 top ten producing counties.

SOYBEANS: Acreage, Yield, Production, 1980-1981[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
UPPER PENINSULA (1)		200	190	26.3	5,000	240	230	27.8	6,400
NORTHWEST (2)		600	580	28.4	16,500	560	550	30.0	16,500
NORTHEAST (3)		1,200	1,150	27.8	32,000	1,300	1,260	28.3	35,700
WEST CENTRAL (4)		800	780	25.6	20,000	1,400	1,360	25.3	34,400
Clare		300	290	30.3	8,800	260	250	30.4	7,600
Gladwin		1,600	1,540	29.9	46,000	1,450	1,430	30.9	44,200
Gratiot	5	50,000	49,400	33.4	1,651,000	43,500	42,900	33.1	1,420,000
Isabella		10,200	10,100	27.4	277,000	10,300	10,200	30.9	315,000
Mecosta		300	280	29.6	8,300	280	270	33.3	9,000
Midland		12,800	12,700	30.9	392,000	13,200	13,000	30.8	400,000
Montcalm		8,600	8,500	30.8	262,000	7,800	7,750	30.7	238,000
Osceola		200	190	31.1	5,900	210	200	31.0	6,200
CENTRAL (5)		84,000	83,000	31.9	2,651,000	77,000	76,000	32.1	2,440,000
Arenac		4,900	4,800	29.0	139,000	5,300	5,200	29.0	151,000
Bay		15,800	15,600	29.3	457,000	17,200	17,000	31.7	539,000
Huron		3,300	3,200	31.6	101,000	3,600	3,500	30.6	107,000
Saginaw	1	115,000	114,000	33.6	3,829,500	110,000	109,000	31.3	3,410,000
Sanilac		33,000	32,700	29.1	950,000	30,300	29,900	30.4	910,000
Tuscola		14,000	13,900	32.6	453,000	16,600	16,400	30.7	503,000
EAST CENTRAL (6)		186,000	184,200	32.2	5,929,500	183,000	181,000	31.0	5,620,000
Allegan		4,000	3,900	30.8	120,000	2,800	2,620	28.7	75,300
Berrien		23,500	23,400	26.8	626,000	23,600	23,400	33.6	786,000
Cass		20,300	20,200	33.2	671,000	17,500	17,300	36.4	629,000
Kalamazoo		21,300	21,200	28.9	612,000	18,500	18,300	35.9	657,000
Kent		2,300	2,200	27.3	60,000	1,800	1,790	32.0	57,300
Ottawa		1,200	1,100	31.8	35,000	1,100	1,090	29.7	32,400
Van Buren		9,600	9,500	29.1	276,000	10,200	10,100	30.7	310,000
SOUTHWEST (7)		82,200	81,500	29.4	2,400,000	75,500	74,600	34.1	2,547,000
Barry		6,400	6,350	31.5	200,000	5,000	4,950	34.7	172,000
Branch	10	34,000	33,700	30.5	1,028,000	40,500	40,100	30.9	1,240,000
Calhoun		17,100	17,000	29.7	505,000	19,900	19,700	33.9	668,000
Clinton	6	46,300	46,000	29.8	1,370,000	48,000	47,500	31.8	1,510,000
Eaton		19,600	19,500	32.5	634,000	17,600	17,400	35.4	616,000
Hillsdale		31,200	31,000	26.0	806,000	36,500	36,100	29.4	1,060,000
Ingham		19,800	19,600	30.6	600,000	19,800	19,600	32.0	627,000
Ionia		19,500	19,400	31.8	617,000	17,500	17,300	33.4	577,000
Jackson		4,800	4,750	31.6	150,000	4,000	3,950	32.9	130,000
St. Joseph	7	34,800	34,700	32.0	1,110,000	33,200	32,900	32.5	1,070,000
Shiawassee	4	71,500	71,000	29.2	2,072,000	64,000	63,500	30.4	1,930,000
SOUTH CENTRAL (8)		305,000	303,000	30.0	9,092,000	306,000	303,000	31.7	9,600,000
Genesee	9	31,600	31,200	33.2	1,037,000	30,300	30,100	29.4	885,000
Lapeer		7,500	7,400	33.8	250,000	4,800	4,750	31.6	150,000
Lenawee	2	110,000	108,000	27.0	2,913,000	104,000	103,000	35.7	3,680,000
Livingston		2,500	2,440	24.6	60,000	2,900	2,850	30.5	87,000
Macomb		18,800	18,600	32.4	603,000	17,900	17,600	30.3	533,000
Monroe	3	90,200	89,500	27.1	2,423,000	96,000	95,200	32.0	3,050,000
Oakland		500	460	30.4	14,000	500	490	30.6	15,000
St. Clair	8	37,500	37,000	29.4	1,089,000	34,300	34,000	29.4	1,000,000
Washtenaw		16,400	16,200	27.8	450,000	17,000	16,800	29.8	500,000
Wayne		5,000	4,800	24.0	115,000	7,300	7,210	27.7	200,000
SOUTHEAST (9)		320,000	315,600	28.4	8,954,000	315,000	312,000	32.4	10,100,000
STATE		980,000	970,000	30.0	29,100,000	960,000	950,000	32.0	30,400,000

1/ Estimates not published for counties with small acreages.
2/ 1981 Top ten producing counties.

Dry Beans: Acreage, Yield, Production, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield[3]	Production	Planted	Harvested	Yield[3]	Production
		Acres		*Pounds*	*Cwt.*	*Acres*		*Pounds*	*Cwt.*
UPPER PENINSULA (1)		2,300	2,200	1,230	27,100	1,700	1,650	1,210	20,000
NORTHWEST (2)		3,000	2,900	1,310	38,000	3,100	3,000	1,000	30,000
NORTHEAST (3)		9,300	9,100	1,170	106,600	8,600	8,000	1,040	83,000
WEST CENTRAL (4)		850	800	1,000	8,000	600	550	1,090	6,000
Clare		--	--	--	--	--	--	--	--
Gladwin		4,200	4,150	1,370	57,000	4,200	4,160	1,120	46,500
Gratiot	3	71,500	69,000	1,300	898,000	61,500	60,500	1,310	792,000
Isabella	10	22,000	20,900	1,260	264,000	20,000	19,200	1,500	288,000
Mecosta		3,300	3,220	1,070	34,500	3,100	2,960	1,230	36,300
Midland	9	23,000	22,450	1,360	306,000	21,000	20,500	1,490	305,000
Montcalm	7	32,000	30,900	1,250	386,000	24,000	23,500	1,470	345,000
Osceola		--	--	--	--	--	--	--	--
CENTRAL (5)		156,400	151,000	1,290	1,950,000	134,000	131,000	1,390	1,815,000
Arenac		16,000	14,200	1,130	161,000	16,000	15,500	1,390	215,000
Bay	5	52,000	50,000	1,270	635,000	51,000	49,500	1,430	708,000
Huron	1	104,000	95,800	1,220	1,173,000	89,000	86,000	1,430	1,230,000
Saginaw	4	56,000	52,300	1,280	667,000	58,000	54,000	1,270	686,000
Sanilac	6	62,000	39,500	1,000	395,000	55,000	52,000	1,290	673,000
Tuscola	2	83,000	78,800	1,190	936,000	79,000	77,000	1,380	1,060,000
E. CENTRAL (6)		373,000	330,600	1,200	3,967,000	348,000	334,000	1,370	4,572,000
Allegan		--	--	--	--	--	--	--	--
Berrien		250	240	1,000	2,400	280	270	1,520	4,100
Cass		--	--	--	--	--	--	--	--
Kalamazoo		100	100	1,000	1,000	110	100	1,500	1,500
Kent		2,000	1,880	1,000	18,800	1,610	1,530	1,530	23,400
Ottawa		--	--	--	--	--	--	--	--
Van Buren		--	--	--	--	--	--	--	--
SOUTHWEST (7)		2,850	2,700	1,000	27,000	2,000	1,900	1,530	29,000
Barry		2,800	2,700	960	26,000	2,300	2,270	1,190	27,000
Branch		--	--	--	--	--	--	--	--
Calhoun		300	270	1,260	3,400	250	240	1,290	3,100
Clinton		15,500	14,300	1,170	168,000	12,500	12,400	1,350	168,000
Eaton	8	27,000	25,700	1,300	333,000	23,500	23,100	1,340	310,500
Hillsdale		--	--	--	--	--	--	--	--
Ingham		3,100	3,000	1,390	41,700	3,100	3,060	1,370	42,000
Ionia		19,000	17,500	1,490	261,000	16,500	16,200	1,310	212,000
Jackson		500	450	1,270	5,700	510	500	1,200	6,000
St. Joseph		250	230	1,260	2,900	310	300	1,330	4,000
Shiawassee		8,500	8,000	910	73,000	9,000	8,900	1,340	119,000
S. CENTRAL (8)		77,000	72,200	1,270	915,200	68,000	67,000	1,330	892,000
Genessee		1,900	1,600	1,290	20,600	1,900	1,870	1,250	23,400
Lapeer		14,000	10,300	820	84,000	13,000	12,100	1,390	168,000
Lenawee		--	--	--	--	--	--	--	--
Livingston		600	550	800	4,400	410	400	1,300	5,200
Macomb		1,700	1,250	1,090	13,600	1,800	1,740	1,290	22,500
Monroe		--	--	--	--	--	--	--	--
Oakland		--	--	--	--	--	--	--	--
St. Clair		7,000	4,700	760	35,600	6,800	6,700	1,260	84,700
Washtenaw		--	--	--	--	--	--	--	--
Wayne		--	--	--	--	--	--	--	--
SOUTHEAST (9)		25,300	18,500	860	159,100	24,000	22,900	1,330	305,000
STATE		650,000	590,000	1,220	7,198,000	590,000	570,000	1,360	7,752,000

1/ Estimates not for counties with small acreages.
2/ 1981 top ten producing counties.
3/ Yields derived and rounded to nearest 10 pounds.

OATS: Acreage, Yield, Production, 1980-1981[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
Alger		430	410	41.5	17,000	410	400	40.0	16,000
Baraga		660	650	40.0	26,000	710	670	40.0	26,800
Chippewa		6,300	6,200	44.4	275,000	5,200	5,100	39.2	200,000
Delta		4,300	4,200	52.4	220,000	4,600	4,500	42.7	192,000
Dickinson		1,000	830	44.6	37,000	1,050	1,000	43.2	43,200
Gogebic		170	160	43.8	7,000	230	220	38.2	8,400
Houghton		1,900	1,750	42.9	75,000	1,900	1,850	37.1	68,600
Iron		1,400	1,350	44.4	60,000	1,400	980	42.0	41,200
Keweenaw		–	–	–	–	–	–	–	–
Luce		220	210	47.6	10,000	280	270	44.4	12,000
Mackinac		2,200	2,100	45.7	96,000	2,200	2,150	36.8	79,100
Marquette		1,000	950	36.8	35,000	810	710	35.2	25,000
Menominee		5,700	5,600	51.8	290,000	6,000	5,800	42.1	244,000
Ontonagon		1,740	1,650	42.4	70,000	1,570	1,520	39.3	59,700
Schoolcraft		480	440	40.9	18,000	630	620	38.7	24,000
UPPER PENINSULA (1)		27,500	26,500	46.6	1,236,000	27,000	25,800	40.3	1,040,000
Antrim		1,400	1,200	46.7	56,000	1,200	840	47.6	40,000
Benzie		100	60	41.7	2,500	50	50	48.0	2,400
Charlevoix		900	800	42.5	34,000	1,150	930	40.9	38,000
Emmet		1,650	1,450	37.9	55,000	1,750	1,700	38.4	65,300
Grand Traverse		1,100	1,000	47.0	47,000	1,300	1,250	47.2	59,000
Kalkaska		400	300	40.0	12,000	350	340	39.1	13,300
Leelanau		1,050	900	46.7	42,000	1,250	1,200	47.8	57,400
Manistee		400	300	41.7	12,500	500	490	42.9	21,000
Missaukee		5,200	5,000	44.4	222,000	6,400	6,000	45.0	270,000
Wexford		1,100	990	42.4	42,000	1,350	1,300	41.2	53,600
NORTHWEST (2)		13,300	12,000	43.8	525,000	15,300	14,100	44.0	620,000
Alcona		1,700	1,600	47.5	76,000	1,450	1,350	45.0	60,700
Alpena		8,700	8,400	46.4	390,000	8,480	8,200	43.9	360,000
Cheboygan		2,400	2,200	47.3	104,000	2,550	1,800	42.8	77,000
Crawford		150	130	46.2	6,000	150	140	44.3	6,200
Iosco		2,300	2,100	55.2	116,000	2,100	2,050	50.7	104,000
Montmorency		1,800	1,500	46.0	69,000	1,700	1,650	40.0	66,000
Ogemaw		4,900	4,400	52.3	230,000	4,800	4,100	51.2	210,000
Oscoda		300	250	48.0	12,000	420	410	42.9	17,600
Otsego		2,300	2,200	54.1	119,000	2,400	2,250	44.9	101,000
Presque Isle		7,800	7,500	55.5	416,000	9,800	9,500	47.4	450,000
Roscommon		150	120	50.0	6,000	150	150	50.0	7,500
NORTHEAST (3)		32,500	30,400	50.8	1,544,000	34,000	31,600	46.2	1,460,000
Lake		540	500	56.0	28,000	540	440	51.6	22,700
Mason		2,760	2,600	57.3	149,000	2,000	1,400	52.6	73,600
Muskegon		1,700	1,500	56.7	85,000	1,780	1,650	52.8	87,100
Newaygo		3,200	2,600	54.6	142,000	3,150	2,850	54.7	156,000
Oceana		800	600	55.0	33,000	930	860	58.8	50,600
WEST CENTRAL (4)		9,000	7,800	56.0	437,000	8,400	7,200	54.2	390,000
Clare		1,900	1,700	60.0	102,000	2,000	1,950	56.9	111,000
Gladwin		3,100	2,900	60.0	174,000	3,200	3,150	57.8	182,000
Gratiot	10	8,400	8,200	69.5	570,000	8,800	8,400	63.1	530,000

OATS: Acreage, Yield, Production, 1980-1981[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
Isabella		7,700	7,500	62.7	470,000	6,400	6,100	54.6	333,000
Mecosta		2,700	2,500	59.6	149,000	3,000	2,850	56.1	160,000
Midland		1,700	1,600	68.1	109,000	1,800	1,700	70.6	120,000
Montcalm		7,800	7,600	60.4	459,000	7,100	6,200	57.1	354,000
Osceola		5,000	4,800	54.8	263,000	5,000	4,650	51.6	240,000
CENTRAL (5)		38,300	36,800	62.4	2,296,000	37,300	35,000	58.0	2,030,000
Arenac		3,500	3,000	71.7	215,000	3,700	3,500	70.0	245,000
Bay		1,350	1,200	68.3	82,000	1,350	1,250	63.2	79,000
Huron	2	17,800	16,700	73.0	1,219,000	14,400	13,700	72.3	990,000
Saginaw		5,250	5,000	72.2	361,000	4,550	4,050	70.1	284,000
Sanilac	1	31,300	30,000	68.1	2,043,000	33,400	31,800	67.9	2,160,000
Tuscola	5	9,900	8,600	79.2	681,000	10,600	10,100	74.5	752,000
EAST CENTRAL (6)		69,100	64,500	71.3	4,601,000	68,000	64,400	70.0	4,510,000
Allegan		6,300	5,800	61.9	359,000	5,950	5,300	60.8	322,000
Berrien		2,300	2,200	63.2	139,000	2,050	2,000	63.0	126,000
Cass		2,900	2,800	60.0	168,000	3,000	2,900	63.4	184,000
Kalamazoo		4,600	4,200	67.4	283,000	4,850	4,350	64.6	281,000
Kent		9,300	9,000	60.7	546,000	8,100	7,900	60.3	476,000
Ottawa		6,200	5,400	63.9	345,000	6,800	6,300	64.9	409,000
Van Buren		2,300	2,100	57.1	120,000	2,750	2,350	60.4	142,000
SOUTHWEST (7)		33,900	31,500	62.2	1,960,000	33,500	31,100	62.4	1,940,000
Barry		5,300	5,200	60.2	313,000	4,000	3,750	58.4	219,000
Branch		4,700	4,500	66.2	298,000	4,700	4,650	62.4	290,000
Calhoun	6	9,600	9,400	68.0	639,000	9,100	8,800	70.0	616,000
Clinton	8	9,500	9,300	64.9	604,000	9,600	9,300	65.7	611,000
Eaton		4,800	4,500	74.9	337,000	5,500	5,300	70.9	376,000
Hillsdale		5,600	5,000	63.0	315,000	5,850	5,600	65.4	366,000
Ingham		5,000	4,600	68.3	314,000	5,400	5,300	63.4	336,000
Ionia	9	9,300	8,900	67.0	596,000	9,000	8,700	65.3	568,000
Jackson		6,200	5,700	61.9	353,000	7,100	6,800	65.1	443,000
St. Joseph		3,400	3,100	63.2	196,000	3,350	3,300	64.5	213,000
Shiawassee	3	14,800	14,300	62.7	897,000	13,400	12,900	61.4	792,000
SOUTH CENTRAL (8)		78,200	74,500	65.3	4,862,000	77,000	74,400	64.9	4,830,000
Genesee		8,900	8,600	61.0	525,000	7,750	7,300	57.3	418,000
Lapeer	7	9,300	9,000	70.0	630,000	8,300	7,800	69.0	538,000
Lenawee		6,400	6,100	72.1	440,000	4,900	4,650	69.9	325,000
Livingston		5,400	5,100	61.4	313,000	5,700	5,400	60.9	329,000
Macomb		3,200	3,000	62.0	186,000	3,300	3,100	70.3	218,000
Monroe		3,000	2,900	68.3	198,000	2,600	2,400	70.8	170,000
Oakland		1,800	1,600	65.0	104,000	1,700	1,600	62.5	100,000
St. Clair		6,900	6,750	61.8	417,000	6,700	6,400	65.6	420,000
Washtenaw	4	13,000	12,700	62.2	790,000	13,300	12,520	59.6	746,000
Wayne		300	250	64.0	16,000	250	230	69.6	16,000
SOUTHEAST (9)		58,200	56,000	64.6	3,619,000	54,500	51,400	63.8	3,280,000
STATE		360,000	340,000	62.0	21,080,000	355,000	335,000	60.0	20,100,000

1/ Estimates not published for counties with small acreages.

2/ 1981 top ten producing counties.

Sugarbeets: Acreage, Yield, Production, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Tons*		*Acres*		*Tons*	
UPPER PENINSULA (1)		--	--	--	--	--	--	--	--
NORTHWEST (2)		--	--	--	--	--	--	--	--
NORTHEAST (3)		--	--	--	--	--	--	--	--
W. CENTRAL (4)		--	--	--	--	--	--	--	--
Clare		--	--	--	--	--	--	--	--
Gladwin		600	550	18.5	10,200	--	--	--	--
Gratiot	6	5,800	5,400	20.8	112,500	4,860	4,800	18.8	90,300
Isabella		--	--	--	--	--	--	--	--
Mecosta		--	--	--	--	--	--	--	--
Midland	8	2,600	2,450	16.7	41,000	2,340	2,320	17.2	39,800
Montcalm		--	--	--	--	--	--	--	--
Osceola		--	--	--	--	--	--	--	--
CENTRAL (5)		9,100	8,500	19.4	165,300	7,610	7,530	18.2	136,800
Arenac	7	2,300	2,200	20.0	44,000	2,200	2,160	17.7	38,300
Bay	3	18,100	17,700	20.8	368,000	17,500	17,360	18.9	328,000
Huron	2	21,100	20,650	21.2	437,000	20,700	20,490	19.7	403,700
Saginaw	4	14,900	14,700	21.3	313,500	13,750	13,610	19.2	261,600
Sanilac	5	9,900	9,100	18.7	170,000	9,350	9,290	19.9	185,000
Tuscola	1	22,700	22,400	20.7	463,000	23,800	23,490	19.6	459,400
E. CENTRAL (6)		89,000	86,750	20.7	1,795,500	87,300	86,400	19.4	1,676,000
SOUTHWEST (7)		--	--	--	--	--	--	--	--
Barry		--	--	--	--	--	--	--	--
Branch		--	--	--	--	--	--	--	--
Calhoun		--	--	--	--	--	--	--	--
Clinton		--	--	--	--	--	--	--	--
Eaton		--	--	--	--	--	--	--	--
Hillsdale		--	--	--	--	--	--	--	--
Ingham		--	--	--	--	--	--	--	--
Ionia		--	--	--	--	--	--	--	--
Jackson		--	--	--	--	--	--	--	--
St. Joseph		--	--	--	--	--	--	--	--
Shiawassee		--	--	--	--	--	--	--	--
S. CENTRAL (8)		300	300	19.0	5,700	240	230	19.1	4,400
Genessee		--	--	--	--	--	--	--	--
Lapeer		--	--	--	--	--	--	--	--
Lenawee	9	1,900	1,850	19.8	36,700	2,290	2,280	20.1	45,900
Livingston		--	--	--	--	--	--	--	--
Macomb		--	--	--	--	--	--	--	--
Monroe		550	550	16.7	9,200	730	730	17.1	12,500
Oakland		--	--	--	--	--	--	--	--
St. Clair	10	850	760	17.1	13,000	760	760	19.8	15,050
Washtenaw		--	--	--	--	--	--	--	--
Wayne		--	--	--	--	--	--	--	--
SOUTHEAST (9)		3,600	3,450	18.4	63,500	3,850	3,840	19.5	74,800
STATE		102,000	99,000	20.5	2,030,000	99,000	98,000	19.3	1,892,000

1/ Counties will less than 500 acres not published.

2/ 1981 Top ten counties.

Potatoes: Acreage, Yield, Production 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield[3]	Production	Planted	Harvested	Yield[3]	Production
		Acres		Cwt.		Acres		Cwt.	
Delta		800	780	250	195,000	900	870	260	226,200
Dickinson	4	1,600	1,570	240	377,000	1,500	1,450	240	348,000
Houghton		500	490	200	98,000	500	480	230	110,400
Iron		400	390	225	87,800	400	390	250	97,500
Marquette		350	340	230	78,200	320	310	210	65,100
Schoolcraft		300	290	220	63,800	350	330	240	80,300
Other		550	540	230	123,200	430	420	200	85,700
UPPER PENINSULA (1)		4,500	4,400	235	1,023,000	4,400	4,250	240	1,013,200
Antrim	6	1,400	1,350	230	310,500	1,100	1,070	240	256,800
Emmet		500	490	200	98,000	550	500	220	110,000
Kalkaska		600	580	200	116,000	450	440	190	83,600
Manistee		500	490	225	110,000	550	530	240	126,900
Other		300	290	205	59,800	350	330	245	81,300
NORTHWEST (2)		3,300	3,200	215	694,300	3,000	2,870	230	658,600
Alpena		250	240	230	55,200	300	290	220	63,800
Otsego		700	670	230	155,000	850	820	200	164,000
Presque Isle	3	1,900	1,850	210	390,000	1,780	1,710	225	384,900
Other		100	100	215	21,500	120	110	205	22,500
NORTHEAST (3)		2,950	2,860	215	621,700	3,050	2,930	215	635,200
WEST CENTRAL (4)		250	240	220	52,800	250	230	210	48,300
Gratiot		500	430	230	99,000	460	450	220	99,000
Isabella		230	220	235	51,700	300	290	200	58,000
Mecosta	9	1,000	900	235	211,000	1,100	1,060	270	286,200
Montcalm	1	9,000	8,700	265	2,305,000	8,900	8,750	260	2,275,000
Other		370	350	215	75,000	340	320	215	68,000
CENTRAL (5)		11,100	10,600	260	2,741,700	11,100	10,870	255	2,786,200
Arenac	8	1,800	1,760	160	282,000	1,800	1,760	175	306,000
Bay	2	4,500	4,440	180	799,000	4,700	4,600	200	925,700
Saginaw		700	660	175	115,500	500	490	175	85,200
Tuscola	10	1,200	1,160	180	208,000	1,400	1,350	210	284,000
Other		300	280	175	48,500	100	100	180	18,100
EAST CENTRAL (6)		8,500	8,300	175	1,453,000	8,500	8,300	195	1,619,000
Allegan	5	1,300	1,250	250	312,000	1,200	1,160	220	255,200
Kent		550	530	260	137,000	450	430	250	107,500
Ottawa		400	380	255	97,000	400	380	210	79,800
Other		550	540	215	116,400	650	630	195	122,200
SOUTHWEST (7)		2,800	2,700	245	662,400	2,700	2,600	215	564,700
Calhoun		300	280	235	66,000	400	380	180	68,400
Eaton		400	370	200	74,000	600	580	200	116,000
Shiawassee		150	130	240	31,000	250	230	230	52,900
Other		750	720	220	159,800	750	730	190	140,400
SOUTH CENTRAL (8)		1,600	1,500	220	330,800	2,000	1,920	195	377,700
Genesee		900	780	200	156,000	1,000	960	215	204,200
Lapeer		500	410	210	86,000	500	480	200	96,000
Lenawee		900	670	210	140,000	700	680	260	167,500
Macomb		390	350	215	75,000	450	440	240	105,600
Monroe	7	1,900	1,450	200	290,000	2,400	2,350	240	564,000
Washtenaw		800	750	210	157,000	830	800	200	160,000
Other		110	90	215	19,300	120	120	180	21,800
SOUTHEAST (9)		5,500	4,500	205	923,300	6,000	5,830	225	1,319,100
STATE		40,500	38,300	222	8,503,000	41,000	39,800	227	9,022,000

1/ Estimates not published for counties with small acreages.
2/ 1981 top ten counties.
3/ District and County yields derived and rounded to nearest 5 hundredweight (cwt.).

Barley: Acreage, Yield, Production, 1980-81[1/]

DISTRICT AND COUNTY	Rank[2]	1981				1980			
		Planted	Harvested	Yield	Production	Planted	Harvested	Yield	Production
		Acres		*Bushels*		*Acres*		*Bushels*	
Alger		600	570	47.4	27,000	270	250	52.0	13,000
Baraga		150	140	44.3	6,200	220	200	46.5	9,300
Chippewa		550	530	43.4	23,000	250	230	45.7	10,500
Delta	4	2,200	2,100	47.0	98,600	1,500	1,360	50.7	69,000
Dickinson	8	700	680	47.1	32,000	500	460	49.6	22,800
Iron		100	90	44.4	4,000	150	130	14.4	5,900
Mackinac		500	480	43.1	20,700	140	130	47.7	6,200
Marquette		600	570	45.6	26,000	550	490	46.9	23,000
Menominee	1	3,300	3,180	50.3	160,000	3,300	3,000	51.0	153,000
Ontonagon		200	190	45.3	8,600	130	120	46.7	5,600
Schoolcraft		600	580	46.0	26,700	320	290	47.2	13,700
UPPER PENINSULA (1)		9,700	9,300	47.5	441,800	7,520	6,840	49.9	341,000
Charlevoix		440	420	44.0	18,500	100	90	45.6	4,100
Emmet		340	330	44.8	14,800	150	140	47.1	6,600
NORTHWEST (2)		1,200	1,150	45.1	51,900	470	450	47.3	21,300
Alcona		230	220	48.6	10,700	40	40	50.0	2,000
Alpena		400	380	51.3	19,500	350	330	51.8	17,100
Cheboygan		420	410	50.0	20,500	170	150	50.0	7,500
Montmorency		500	480	50.0	24,000	230	210	51.9	10,900
Ogemaw		300	290	53.4	15,500	200	180	52.8	9,500
Otsego		350	340	50.0	17,000	200	190	50.0	9,500
Presque Isle		300	290	51.7	15,000	300	280	51.8	14,500
NORTHEAST (3)		2,650	2,550	50.7	129,200	1,490	1,380	51.4	71,000
W. CENTRAL (4)		350	330	46.1	15,200	170	160	53.1	8,500
Clare		400	390	48.7	19,000	150	140	50.0	7,000
Gladwin		420	400	52.5	21,000	150	140	53.6	7,500
Isabella	6	1,000	960	51.6	49,500	1,070	980	48.6	47,600
Mecosta		200	190	46.8	8,900	350	320	47.5	15,200
Montcalm		300	290	50.7	14,700	320	290	52.8	15,300
CENTRAL (5)		2,500	2,400	50.5	121,300	2,250	2,070	49.3	102,000
Huron	3	1,800	1,750	61.6	107,800	1,100	1,000	57.0	57,000
Saginaw	9	500	490	60.2	29,500	350	310	56.8	17,600
Sanilac	5	1,600	1,560	61.5	96,000	1,600	1,450	58.6	85,000
Tuscola	2	2,400	2,350	64.7	152,000	4,000	3,620	60.8	220,000
E. CENTRAL (6)		6,500	6,350	62.4	396,200	7,170	6,500	59.4	386,000
Cass		190	180	48.3	8,700	270	250	49.2	12,300
Ottawa		60	60	50.0	3,000	100	90	52.2	4,700
Van Buren		200	190	51.6	9,800	200	180	52.2	9,400
SOUTHWEST (7)		950	900	49.9	44,900	920	840	50.7	42,600
Barry		120	120	46.7	5,600	150	140	46.4	6,500
Clinton		180	170	47.6	8,100	200	180	47.8	8,600
Ionia	10	600	570	50.9	29,000	410	370	51.6	19,100
Shiawassee		220	210	50.0	10,500	100	90	51.1	4,600
S. CENTRAL (8)		1,450	1,400	49.3	69,000	1,320	1,190	49.2	58,600
Lapeer	7	1,000	950	52.0	49,400	1,200	1,100	52.9	58,200
Monroe		190	180	46.1	8,300	70	70	45.7	3,200
Washtenaw		160	150	51.3	7,700	160	150	52.0	7,800
SOUTHEAST (9)		1,700	1,620	50.9	82,500	1,690	1,570	52.2	82,000
STATE		27,000	26,000	52.0	1,352,000	23,000	21,000	53.0	1,113,000

1/ Estimates not published for counties with small acreages.
2/ Top ten producing counties.